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LCD TV

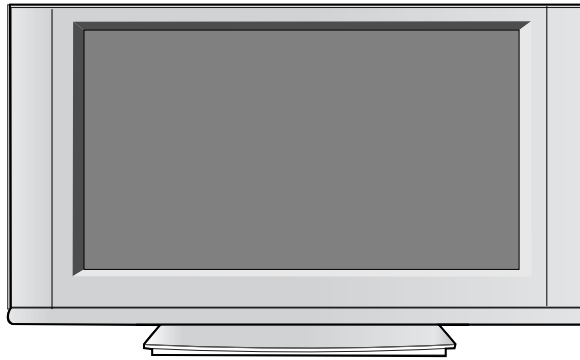
SERVICE MANUAL

CHASSIS : CL-80

MODEL : 55LP1M-WC

CAUTION

BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



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SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by \triangle in the Schematic Diagram and Replacement Parts List.

It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.

Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

X-RAY Radiation

Warning:

The source of X-RAY RADIATION in this TV receiver is the High Voltage Section and the LCD PANEL.

For continued X-RAY RADIATION protection, the replacement panel must be the same type panel as specified in the Replacement Parts List.

To determine the presence of high voltage, use an accurate high impedance HV meter.

Adjust brightness, color, contrast controls to minimum.

Measure the high voltage.

The meter reading should indicate

23.5 \pm 1.5KV: 14-19 inch, 26 \pm 1.5KV: 19-21 inch,

29.0 \pm 1.5KV: 25-29 inch, 30.0 \pm 1.5KV: 32 inch

If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.

Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1M Ω and 5.2M Ω .

When the exposed metal has no return path to the chassis the reading must be infinite.

An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.

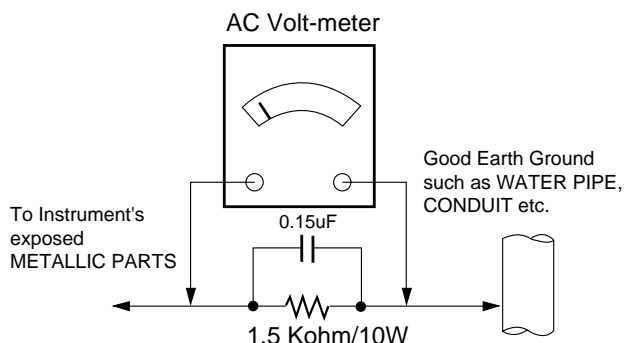
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which corresponds to 0.5mA.

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the *SAFETY PRECAUTIONS* on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
 - a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
 - b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
 - c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.**CAUTION:** A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".

3. Do not spray chemicals on or near this receiver or any of its assemblies.

4. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)

CAUTION: This is a flammable mixture.

Unless specified otherwise in this service manual, lubrication of contacts is not required.

5. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
6. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.

7. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.

Always remove the test receiver ground lead last.

8. Use with this receiver only the test fixtures specified in this service manual.

CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices*. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the

unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500°F to 600°F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a mall wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
 - a. Allow the soldering iron tip to reach normal temperature. (500°F to 600°F)
 - b. Heat the component lead until the solder melts.
 - c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique.
 - a. Allow the soldering iron tip to reach a normal temperature (500°F to 600°F)
 - b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
 - c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
CAUTION: Work quickly to avoid overheating the circuit board printed foil.
- d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush.
(It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor

Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device

Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor

Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.

CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife.
Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side.
Carefully crimp and solder the connections.

CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATION

NOTE : Specifications and others are subject to change without notice for improvement.

1. Application range

This specification is applied to CL-80 chassis.

2. Requirement for Test

Testing for standard of each part must be followed in below condition.

- (1) Temperature: 25°C ± 2°C
- (2) Humidity: 65% ± 10%
- (3) Power: Standard input voltage (AC 100-240V, 50/60Hz)
- (4) Measurement must be performed after heat-run more than 30min.
- (5) Adjusting standard for this chassis is followed a special standard.

3.General Specification

No.	Item	Content		Remark
1	LCD Module Feature	Maker	LPL	P/No. 6304FLP205A (LC550W01-A5K1)
		Type	TFT Color LCD Module	
		Active Display Area	54.64 inches(1387.86) diagonal	
		Pixel Pitch [mm]	630mm(H) x 0.630mm(V) x RGB	
		Electrical Interface	LVDS	
		Color Depth	8bits, 16,777,216 color	
		Size[mm]	1264(H) x 738.4(V) x 49.8(D)	
		Surface Treatment	Anti-Glare, Hard Coating (3H)	
		Operating Mode	Normally Black	
		Back Light Unit	28CCFL(28 lamps)	
		R/T	Typ. 20ms(R.T : 10ms + F.T. : 10ms)	

4. Mechanical specification

No.	Item		Content			Remark
1	Product		Width(W)	Length(D)	Height(H)	
	Dimension	Before Packing	1612	320	943.2	
		After Packing	1740	430	1115	
2	Product	Only Set	75.2kg			
	Weight	With Box	85kg			

5. Engineering Specification

No.	Item		Content				Remark
1.	Supported Sync Type		Separate Sync, SOG, Composite Sync, Digital				
2	Operating Frequency		Analog	Horizontal	30 ~83 KHz		
				Vertical	56 ~85 Hz		
			Digital	Horizontal	30 ~83 KHz		
				Vertical	56 ~85 Hz		
3	Resolution		Analog	Max	1920 x 1080 @60Hz		
				Recommend	1920 x 1080 @60Hz		
			Digital	Max	1920 x 1080 @60Hz		
				Recommend	1920 x 1080 @60Hz		
4	Input Voltage		Voltage : 100 ~ 240Vac , 50 or 60Hz				
5	Inrush Current		Cold : 40A , Hot : 40A				
6	Operating Condition		Sync (H/V)	Video	LED	Wattage	
	Normal Mode	Normal (Typ)	On/On	Active	Green	315W	Without Stand
	Sleep Mode (Set = On) (Signal=O)	Stand by	Off/On	Off	Amber	≤ 4W	
		Suspend	On/Off	Off	Amber	≤ 4W	
		DPMS Off	Off/Off	Off	Amber	≤ 4W	
	Deep Sleep Mode (Set = Off)	Power Off	Off/Off	Off	Off	≤ 2W	
7	MTBF		50,000 HRS with 90% Confidence level		Lamp Life : 50,000 Hours (min)		
8	Using Altitude		5,000 m (for Reliability) 3,000 m (for FOS)				
9	Environment Condition	Operating	Temperature	5°C ~ 35°C			
			Humidity	10% ~ 80%			
		Storage	Temperature	-20°C ~ 60°C non condensing			
			Humidity	5% ~ 95% non-condensing			
10	Pin	D-Sub input	1 : Red Video		9 : E-DDC		
			2 : Green Video		10 : Sync. GND		
			3 : Blue Video		11 : Open		
			4 : Open		12 : SDA		
			5 : Return		13 : Horizontal Sync.		
			6 : Red GND		14 : Vertical Sync.		
			7 : Green GND		15 : SCL		
			8 : Blue GND		Shell : GND		
		D-Sub Output	1 : Red Video		9 : Open		
			2 : Green Video		10 : Sync. GND		
			3 : Blue Video		11 : Open		
			4 : Open		12 : Open		
			5 : Open		13 : Horizontal Sync.		
			6 : Red GND		14 : Vertical Sync.		
			7 : Green GND		15 : Open		
			8 : Blue GND		Shell : GND		
		DVI	1 : TMDS Data 2 -		13 : TMDS Data 3 +		
			2 : TMDS Data 2 +		14 : + 5V Power		
			3 : TMDS Data 2/4 Shield		15 : Ground (For +5V)		
			4 : TMDS Data 4 -		16 : Hot Plug Detect		
			5 : TMDS Data 4 +		17 : TMDS Data 0 -		
			6 : DDC Clock		18 : TMDS Data 0 +		
			7 : DDC Data		19 : TMDS Data 0/5 Shield		
			8 : Analog Vertical Sync		20 : TMDS Data 5 -		
			9 : TMDS Data 1 -		21 : TMDS Data 5 +		
			10 : TMDS Data 1 +		22 : TMDS Clock Shield		
			11 : TMDS Data 1/3 Shield		23 : TMDS Clock +		
			12 : TMDS Data 3 -		24 : TMDS Clock +		
		AV In/Out	1: Composite Video				
			2: Audio L In				
			3: Audio R In				
		HDTV(Y,PB,PR) /DVD(Y,CB,CR)	1: Y				
			2: Pb (Cb)				
			3:Pr (Cr)				
		S-VIDEO	1: GND		3: Y		
			2: GND		4 : C		
		RS232C IN	1. NC		2. Rx		
			3. Tx		4. NC		
			5. NC		6. GND		
			7. NC		8. GND		
			9. NC				
		RS232C OUT	1. NC		2. Rx		
			3. Tx		4. NC		
			5. NC		6. GND		
			7. NC		8. NC		
			9. NC				

6. Signal Timing(Resolution)

1) PC Mode

MODE	H / V	Sync Polarity	Dot Clock	Frequency	Total Period (E)	Video Active Time (A)	Front Porch (C)	Sync Duration (D)	Back Porch (F)	Resolution
1	H(Pixels)	+	25.175	31.469	800	640	16	96	48	640 x 350
	V(Lines)	-		70.8	449	350	37	2	60	
2	H(Pixels)	-	28.321	31.468	900	720	18	108	54	720 X 400
	V(Lines)	+		70.8	449	400	12	2	35	
3	H(Pixels)	-	25.175	31.469	800	640	16	96	48	640 x 480
	V(Lines)	-		59.94	525	480	10	2	33	
4	H(Pixels)	-	31.5	37.5	840	640	16	64	120	640 x 480
	V(Lines)	-		75	500	480	1	3	16	
5	H(Pixels)	-	36.0	43.269	832	640	56	56	80	640 x 480
	V(Lines)	-		85.0	509	480	1	3	25	
6	H(Pixels)	+	40.0	37.879	1056	800	40	128	88	800 x 600
	V(Lines)	+		60.317	628	600	1	4	23	
7	H(Pixels)	+	49.5	46.875	1056	800	16	80	160	800 x 600
	V(Lines)	+		75.0	625	600	1	3	21	
8	H(Pixels)	+	56.25	53.674	1048	800	32	64	152	800 x 600
	V(Lines)	+		85.061	631	600	1	3	27	
9	H(Pixels)	+/-	57.283	49.725	1152	832	32	64	224	832 x 624
	V(Lines)	+/-		74.55	667	624	1	3	39	
10	H(Pixels)	-	65.0	48.363	1344	1024	24	136	160	1024 x 768
	V(Lines)	-		60.0	806	768	3	6	29	
11	H(Pixels)	-	78.75	60.123	1312	1024	16	96	176	1024 x 768
	V(Lines)	-		75.029	800	768	1	3	28	
12	H(Pixels)	+	94.5	68.68	1376	1024	48	96	208	1024 x 768
	V(Lines)	+		85.00	808	768	1	3	36	
13	H(Pixels)	+	74.5	44.772	1664	1280	64	128	192	1280 x 720
	V(Lines)	+		59.855	748	720	3	5	20	
14	H(Pixels)	+	84.75	47.72	1776	1360	72	136	208	1360 x 768
	V(Lines)	+		59.799	798	768	3	5	22	
15	H(Pixels)	+	108.0	63.981	1688	1280	48	112	248	1280 x 1024
	V(Lines)	+		60.02	1066	1024	1	3	38	
16	H(Pixels)	+	135.00	79.98	1688	1280	16	144	248	1280 x 1024
	V(Lines)	+		75.02	1066	1024	1	3	38	
17	H(Pixels)	+	138.5	66.587	2080	1920	48	32	80	1980 x 1080
	V(Lines)	-		60	1111	1080	3	5	23	

2) DTV Mode

Component Video Input (Y/Pb/Pr)

MODE	H / V	Sync Polarity	Dot Clock	Frequency	Total Period (E)	Video Active Time (A)	Front Porch (C)	Sync Duration (D)	Back Porch (F)	Resolution
1	H(Pixels)	-	25.175	31.469	800	640	16	96	48	SDTV 480P
	V(Lines)	-		59.94	525	480	10	2	33	
2	H(Pixels)	-	27.027	31.5	858	720	16	62	60	HDTV 720P (HDCP)
	V(Lines)	-		60	525	480	10	2	33	
3	H(Pixels)	-	74.176	44.955	1650	1280	70	40	260	HDTV 720P (HDCP)
	V(Lines)	-		59.94	750	720	5	5	60	
4	H(Pixels)	-	74.250	33.750	2200	1920	44	44	192	HDTV 1080I (HDCP)
	V(Lines)	-		60.053	562	540	2	5	15	
5	H(Pixels)	-	74.176	33.716	2200	1920	44	44	192	HTDV 1080I (HDCP)
	V(Lines)	-		59.994	562	540	2	5	15	

7. Special Function

No.	Contents			Description		Remark
1	Audio AMP	Output	Output Rating	10W + 10W (Rated Out put ± 10%)		Volume :Adjust
		Freq. Character		100Hz ~ 10KHz Range (-3 dB)		
		T.H.D		Within 10%		
		Input Sensitivity		0.700Vrms		
		S/N		Less then 40dB		
2	Speaker	Type		Built-In		
		Impedance		8 Ω		
		Input		Max : 15W, Normal : 10W		
3	AV	Video Level		Input : 0.7±0.15	V p-p	75 Ω Terminal Resistor
		Sync Level		nput : 0.286±0.075	V p-p	75 Ω Terminal Resistor
		Color Burst		Input : 0.214±0.072	V p-p	75 Ω Terminal Resistor
		Audio Level		NTSC Input : 0.40±0.1 PAL Input: 0.5±0.1 PC Input : 0.7±0.1	V rms	600 Ω
		Video Cross Talk		43	dB	

8. Optical Character

No	Item	Criteria					Remark
1	Viewing Angle <CR≥10>	Horizontal(R/L) : +85°/-85° (min.), 88°/-88° (Typ.)					
		Vertical(Top/Bottom) : +85°/-85° (min.), 88°/-88°(Typ.)					
2	Luminance	Luminance (cd/m2)		400 cd/m2 (min.) 500cd/m2 (Typ)			9300K
		Variation		1.33			
3	Contrast Ratio	Without AI :400(min.),550(Typ.), With AI:800 (min),1200(Typ)					
4	CIE Color Coordinates			Minimum	Typ	Maximum	3600K
		White	WX	0.372	0.402	0.432	
			WY	0.364	0.394	0.424	
		White	WX	0.283	0.313	0.343	6500K
			WY	0.299	0.329	0.359	
		White	Wx	0.254	0.284	0.314	9300K
			Wy	0.265	0.295	0.325	
		Red	RX	0.610	0.640	0.670	
			RY	0.312	0.342	0.372	
		Green	GX	0.255	0.285	0.315	
			GY	0.577	0.607	0.637	
		Blue	BX	0.117	0.147	0.177	
BY	0.035		0.065	0.095			
5	Grey Level Relative Brightness	Gray Level	Typ.				
			Without AI		Without AI		
		L0	0.17		0.17		
		L15	0.55		0.55		
		L31	0.94		0.94		
		L47	2.20		2.20		
		L63	4.21		4.21		
		L79	7.39		7.39		
		L95	11.58		11.58		
		L111	16.57		16.57		
		L127	22.36		22.36		
		L143	30.14		30.14		
		L159	39.72		39.72		
		L175	50.50		50.50		
		L191	61.48		61.48		
		L207	73.25		73.25		
		L223	84.63		84.63		
		L239	94.01		94.01		
		L255	100.0		100.0		
		6	Light Leakage	Condition: Do not visible at 300 Lux			

ADJUSTMENT INSTRUCTION

1. Coverage

Apply to monitor that is made or do standard here upon and manufacture in monitor factory this standard.

2. Appointment

- 2.1 Adjustment can must follow, and confer with design part and change order in order designated.
- 2.2 Power : Free Voltage
- 2.3 Input signal : based engineering specification
- 2.4 pre operating : over 30 min
- 2.5 Adjust equipment : White balance equipment (CA-110/CA-210), Display adjust equipment (VG-828 or VG848) Oscilloscope, PC (Pentium level) , TV/AV Pattern Generator & 55" LCD TV.
HDCP Adjusting Jig equipment.

3. Adjustment

3.1 Overview

Use factory automation equipment and adjust automatic movement. But, do through handwork adjust in error occurrence.

3.2 Adjustment order

3.2.1 Adjustment Line process

- ENTER SERVICE ADJUSTMENT MENU.
- Connect input signal to 15pin D-sub.
- Adjust ready : Adjust command normally action existence and nonexistence and mode action state.
- Checking.
- Confirm that normally gray color is embodied inputing 256 gray scale patterns.

3.2.2 Total Assembly Line

- Ready : Heat-run during 120 minutes in state with signal.
- Connect input signal to 15pin D-sub.
- Before adjust default value : Contrast Outgoing condition, Brightness Outgoing condition

3.2.3 Each mode horizontal/Verticality screen position, Clock, Clock Phase Adjustment.

- There is no special factory mode adjust.
When power ON u-com is default data wright at the adjustment line.
#Caution) That keep power-on more than 10 seconds after power-on first time
- EEPROM contents read to compare at the adjustment line.

3.2.4 Color coordinates adjustment and Luminance adjustment. (input D-sub Analog)

3.2.4.1 Color coordinates adjust ready.

- When each color coordinates & Black level adjust.
- Contrast : outgoing condition
Brightness : outgoing condition
- Signal Generator
Output Voltage : 700 mVp-p
Output Mode : #13 (WXGA 60 Hz) mode Setting.
- Before adjustment command "start preset adjustment" next start adjustment

3.2.4.2 Black level adjustment (Bias Adjustment.)

- Input black pattern none SOG signal.
- Input command AUTO_COLOR_ADJUST(0xF1), 0x00 after adjustment.
- After wait about 2 second, confirm the message "ok",confirm 0xAA the address 0x00 of EEPROM 0xA0 again adjust.(because auto adjustment fail)

3.2.4.3 PRESET 1 (9300 K) Color coordinates adjustment and confirmation (Gain Adjustment)

- Input full white pattern none SOG signal.
- Input command AUTO_COLOR_ADJUST(0xF1), 0x01 after adjustment.
- After wait about 3 second, confirm the message "ok", and, confirm 0xAA the address 0x01 of EEPROM 0xA0.
- If display the message "FAIL" or not 0xAA the address 0x01 of EEPROM 0xA0 again adjust. (because auto adjustment fail)

3.2.4.4 PRESET 2 (6500 K) Color coordinates adjustment and confirmation

- The input is Full White Pattern
- None adjustment process.
- It sends an instruction The AUTO_MODE_CHANGE (0xF2), 0x02
- Auto stored 6500K R = 9300K R, 6500K G = 9500K G - 10, 6500K B = 9300K B- 40.
- Confirm $x = 0.313 \pm 0.030$, $y = 0.329 \pm 0.030$

3.2.5 Color coordinates Adjustment and brightness

Adjustment (AV input)

3.2.5.1 Color coordinates adjustment provisions:

- Adjusting Each color coordinate and Black level
EZ Video : Standard
ACC : Normal
- Input signal :
Adjust after input signal of PAL MODE I ,because major sales area is EU.
PAL:CVBS(576i), 576i (HDTV port), 1080i / 60Hz (HDTV port) it Adjusts 3 Modes.
- Before Adjustment It shows a "PRESET ADJUSTMENT START" message. And adjustment begins.

3.2.5.2 Black level adjustment (Bias adjustment) :

- The input is 1080i/60Hz signal in Component input and 16/255 Gray Level.
Brightness Range 0.9~1.1 cd/m2, In the Sub Bright (0x86) In order to hold the variable brightness.

*Reference : With CVBS input & COMPONENT INPUT 576i It is not with from Adjustment. It does default setting for this value.

3.2.5.3 White Level Adjustment (Gain Adjustment)

- The Display is 240/255 Gray Level.
- For Adjustment the R Gain is fixed at 100, to adjust G/B gain , the color coordinates
- 55LP1M-WC ($x = 0.283 \pm 0.010$, $y = 0.298 \pm 0.010$)
(G Gain is variable ,its range is 0 ~ 100)
- Only when the G gain goes over 100 it fixes the G gain 100 and R/B gain is variable
- It makes the color coordinate. (Generally only R gain Or G gain is fixed to 100)

3.2.5.4 Gray Scale Check

- The input can be 3 modes PAL : CVBS(576i) , 576i (HDTV port), 1080i (HDTV port).
- For each mode 16 GREY pattern is displayed
- Check 0 level is not displayed and 1/16 Grey is displayed.
- The 15/16 Gray and 16/16 Gray are checked separately.

3.2.6 Operation condition check

3.2.6.1 Operational mode: Every mode, which is in specification, is checked that it is accurate and are operated.

3.2.6.2 Adjustment condition and operation check:
Satisfactory yes or no adjustment of screen adjustment standards

- Analog/Digital screen condition check: From lower part mode screen condition good yes or no check
Designation mode : 640x350 (70Hz) - 1 mode,
800x600 (75Hz) - 2 mode,
1024x768(60Hz) -12 mode,
1280x768(60 Hz)-13 mode

The input selection time is 8 seconds after key is pressed and Analog or Digital display comes on the screen.

3.2.6.3 H/V Position, Clock, Clock Phase and Auto Calibration operation check

- The Mode 13 (1280*768,60Hz) 1line from on/off pattern H/V Position and the Clock, Clock Phase it is variable each and it is checked it operates normally
- The Clock, Clock phase are adjusted by auto calibration when they have become variable. They are checked.

3.2.6.4 Color operation check: 9300K, 6500, 3600K ,USER COLOR are checked for normal operation.

- It is checked that 9300 and USER COLOR setting are same.

Other quality : Satisfactory yes or no adjustment against each item from the standard condition which is written clearly in the product specification

(1) Each SOURCE image and Sound check

- A/V : supports NTSC, PAL

3.2.6.5 Audio Spec

Speaker: 8ohm

INPUT(PC AUDIO) : 0.7Vrms , OUTPUT : 10W

INPUT(A/V) : 0.4Vrms(NTSC), 0.5Vrms(PAL), OUTPUT : 10W

3.2.6.6 OSD and terminal check. Check clearly, adjustment follows the product specification.

3.2.6.7 The input is Color bar pattern and 256 Gray scale pattern and check if normal color is displayed properly

3.2.6.8 PM operation confirmation: the power LED glow and voltage power consumption is checked
(When No image signal condition)

3.2.6.9 E-DDC EDID Write

- Analog Part EDID Data store

■ Connect Analog Signal Cable to D-SUB Jack

■ Write DDC data 24C02 and check DDC function operates normally and DDC data is written correctly (EDID Data product specification reference)

-Stores Digital Part EDID Data

■ Connect Digital Signal Cable to DVI-D Jack.

Write DDC data 24C02 and check DDC function operates normally and DDC data is written correctly (EDID Data product specification reference)

3.2.6.10 HDCP Write

■ Connect Digital Signal Cable to DVI-D Jack.

Write HDCP data 24C16 and check HDCP function operates normally and HDCP data is written correctly

3.2.6.11 RS 232C

■ Connect serial cable to RS232C

■ Send the instruction " 0x04, 0xaa, 0xff, 0x53" and check "OK" Message. is display on screen. check "OK" Message. is display on screen.

■ CHECK THE SVC Aging On IF CANNOT OPERATE

3.2.6.12 All Reset

■ All Tests finish when inside service mode. the "NVRAM INITIAL" makes it ON with Initial Data.

3.2.6.13 LANGUAGE: The default language is ENGLISH as in the Product Specification

■ Another language can be set as per Product Specification.

3.2.6.14 CNN option

1) Enter the Service menu Adjustment.

2) In the Setup MENU select CNN ON/OFF and set up as. Default is CNN OFF. (Don't need select this option that is only for CNN)

3.2.6.15 FAN Operation check (ALL Model)

1) Enter the Service Adjustment Menu

2) Select Menu's "FAN" and make by "On".

3) Confirm FAN's operating

3.2.6.16 Temperature (Ambient) confirm (ALL Model)

1) Enter the Service Adjustment Menu.

2) Confirm temperature value.

(This value is ambient temperature of set . If it is baggage value, set is badness.)

3.2.6.17 Light Sensor value confirm

1) Enter the Service Adjustment Menu.

2) Confirm Light Value's value.

(Can know if cover sensor on hand. In the present case, sensor value amounts to 0.)

(According to brightness, confirm change of value of sensor.)

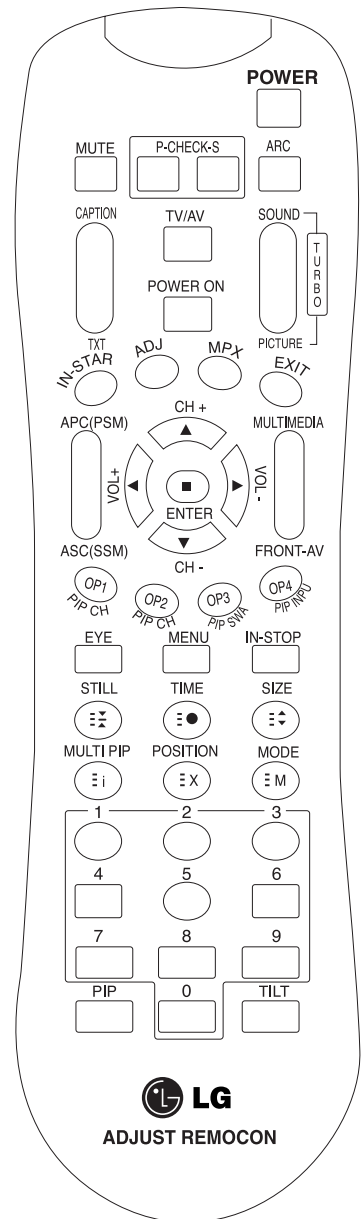
(If sensor value does not change, it is badness.)

4. Shipping Condition

No.	Item		Shipping Condition		Remark.		
1	Shipping Condition	SOURCE		RGB1			
		DC Power S/W		OFF			
		Monitor part	EZ Video	(none active)			
			ACC	6500K			
			EZ Audio	Flat			
			Balance	0			
			AVL	Off			
			SRS WOW	Off			
			Input	RGB1			
			Child Lock	Off			
			Language	English			
			Power Indicator	On			
			Transparency	20			
			Tile mode	Off			
			Reset	-			
			Set ID	1			
			Logo Display Lamp	On			
			Light Sensor	Off			
			ARC	Full			
			Auto-configure	-			
			Clock	-			
			Phase	-			
			Position	Horizontal	-		
				Vertical	-		
			PIP/POP/PBP	Off			
		AV part	EZ Video	Dynamic			
			ACC	Normal			
			EZ Audio	Flat			
			Balance	0			
			AVL	Off			
			SRS WOW	Off			
			Input	AV			
			Child lock	Off			
	Language		English				
	Power Indicator		On				
	Transparency	20					
	Tile Mode	Off					
	Reset	-					
	Set ID	1					
	Logo Display Lamp	On					
	Light Sensor	Off					
	ARC	Full					
	PIP/POP/PBP	Off					

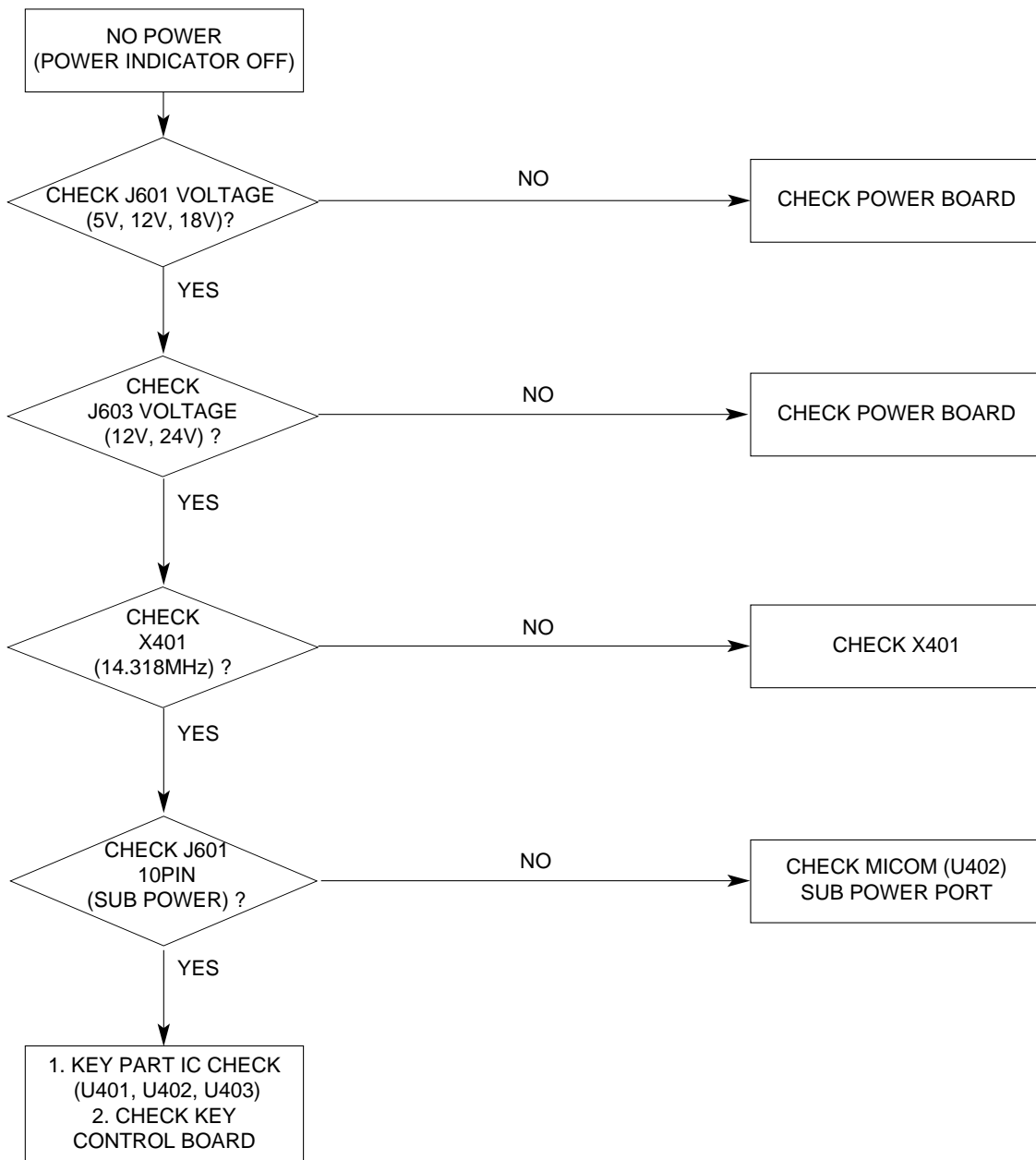
SVC REMOCON

NO	KEY	FUNTION	REAMARK
1	POWER	To turn the TV on or off	
2	POWER ON	To turn the TV on automatically if the power is supplied to the TV. (Use the POWER key to deactivate): It should be deactivated when delivered.	
3	MUTE	To activate the mute function.	
4	P-CHECK	To check TV screen image easily.	Shortcut keys
5	S-CHECK	To check TV screen sound easily	Shortcut keys
6	ARC	To select size of the main screen (Normal, Spectacle, Wide or Zoom)	Shortcut keys
7	CAPTION	Switch to closed caption broadcasting	
8	TXT	To toggle on/off the teletext mode	
9	TV/AV	To select an external input for the TV screen	
10	TURBO SOUND	To start turbo sound	
11	TURBO PICTURE	To start turbo picture	
12	IN-START	To enter adjustment mode when manufacturing the TV sets.	Use the AV key to enter the screen W/B adjustment mode.
		To adjust the screen voltage (automatic): In-start → mute → Adjust → AV(Enter into W/B adjustment mode)	
		W/B adjustment (automatic): After adjusting the screen → W/B adjustment → Exit two times (Adjustment completed)	
13	ADJ	To enter into the adjustment mode. To adjust horizontal line and sub-brightness.	
14	MPX	To select the multiple sound mode (Mono, Stereo or Foreign language)	
15	EXIT	To release the adjustment mode	
16	APC(PSM)	To easily adjust the screen according to surrounding brightness	
17	ASC(SSM)	To easily adjust sound according to the program type	
18	MULTIMEDIA	To check component input	Shortcut keys
19	FRONT-AV	To check the front AV	Shortcut keys
20	CH ±	To move channel up/down or to select a function displayed on the screen.	
21	VOL ±	To adjust the volume or accurately control a specific function.	
22	ENTER	To set a specific function or complete setting.	
23	PIP CH-(OP1)	To move the channel down in the PIP screen. To use as a red key in the teletext mode	
24	PIP CH+(OP2)	To move the channel in the PIP screen To use as a green key in the teletext mode	
25	PIP SWAP(OP3)	To switch between the main and sub screens To use as a yellow key in the teletext mode	
26	PIP INPUT(OP4)	To select the input status in the PIP screen To use as a blue key in the teletext mode	
27	EYE	To set a function that will automatically adjust screen status to match the surrounding brightness so natural color can be displayed.	
28	MENU	To select the functions such as video, voice, function or channel.	
29	IN-STOP	To set the delivery condition status after manufacturing the TV set.	
30	STILL	To halt the main screen in the normal mode, or the sub screen at the PIP screen. Used as a hold key in the teletext mode (Page updating is stopped.)	
31	TIME	Displays the teletext time in the normal mode Enables to select the sub code in the teletext mode	
32	SIZE	Used as the size key in the PIP screen in the normal mode Used as the size key in the teletext mode	
33	MULTI PIP	Used as the index key in the teletext mode (Top index will be displayed if it is the top text.)	
34	POSITION	To select the position of the PIP screen in the normal mode Used as the update key in the teletext mode (Text will be displayed if the current page is updated.)	
35	MODE	Used as Mode in the teletext mode	
36	PIP	To select the simultaneous screen	
37	TILT	To adjust screen tilt	Shortcut keys
38	0~9	To manually select the channel.	

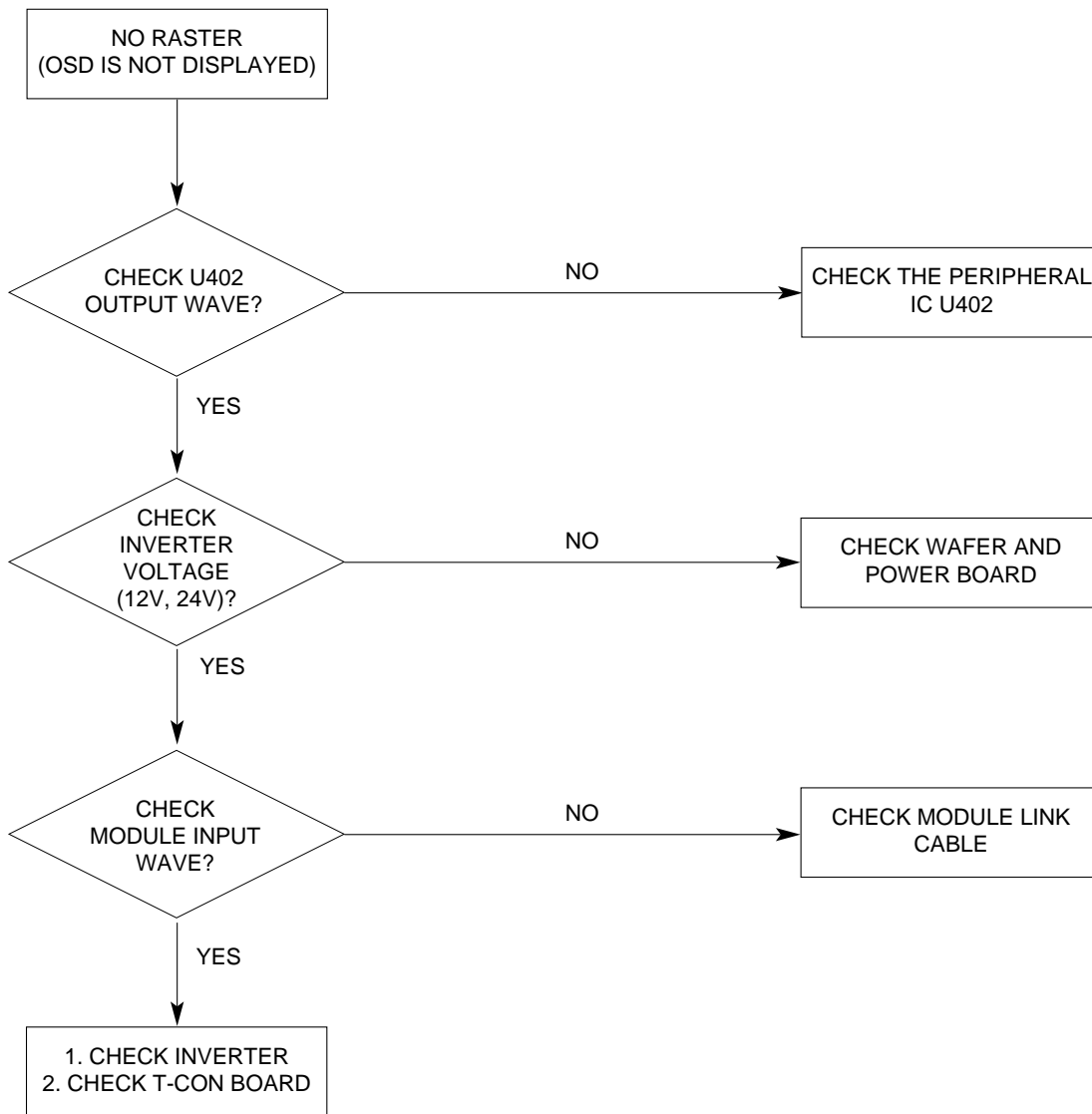


TROUBLESHOOTING

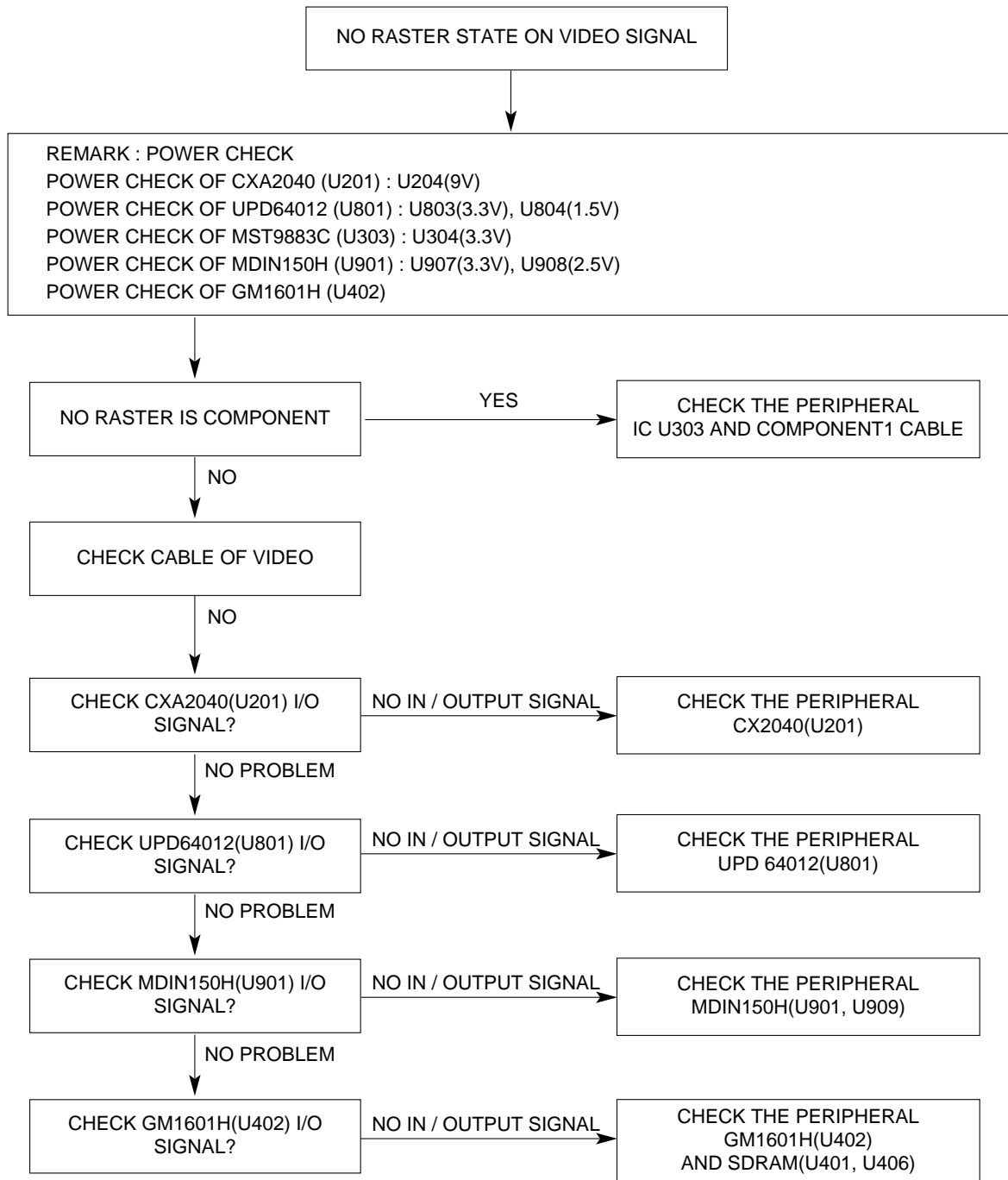
1. NO POWER



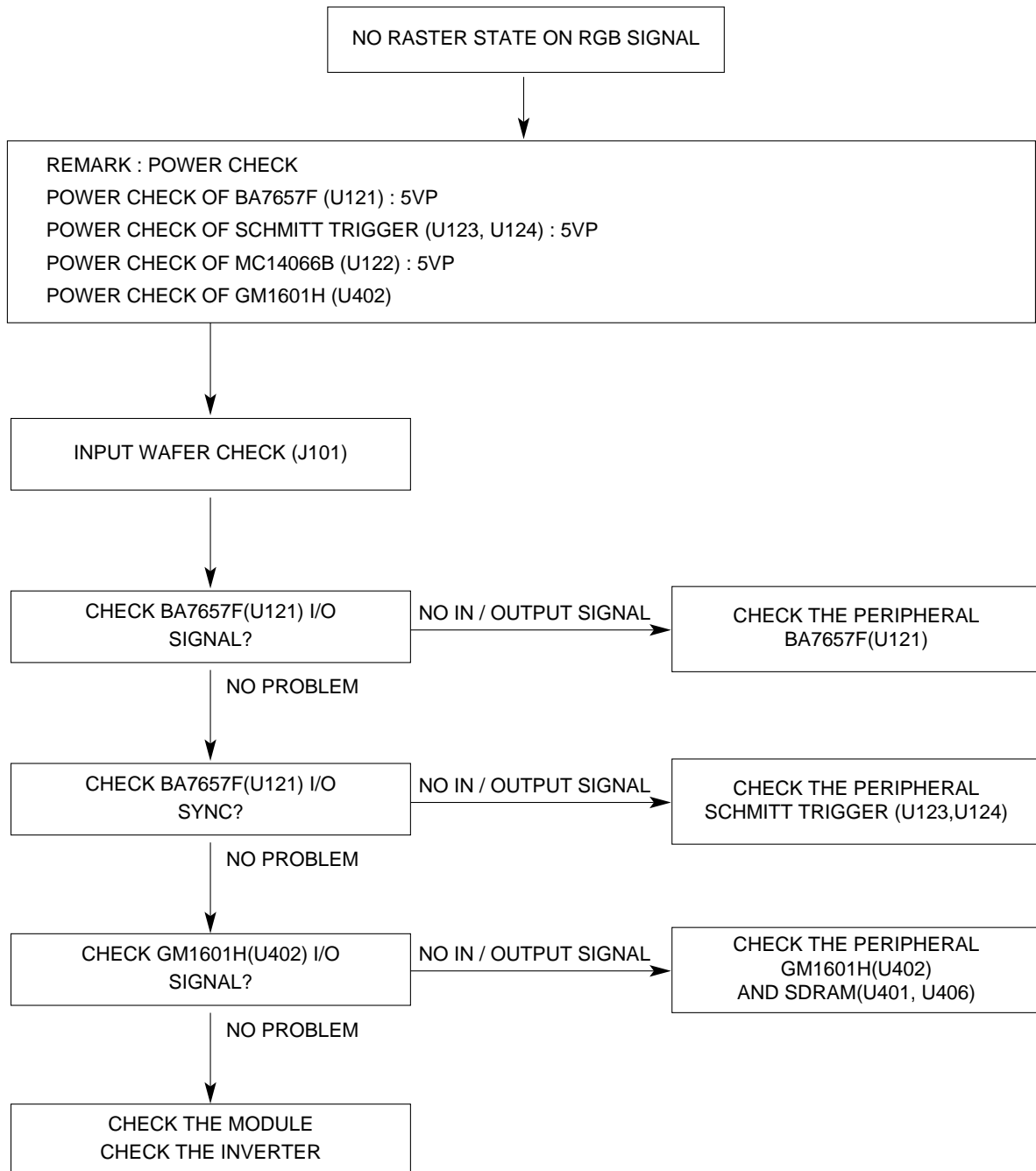
2. NO RASTER(OSD IS NOT DISPLAYED)



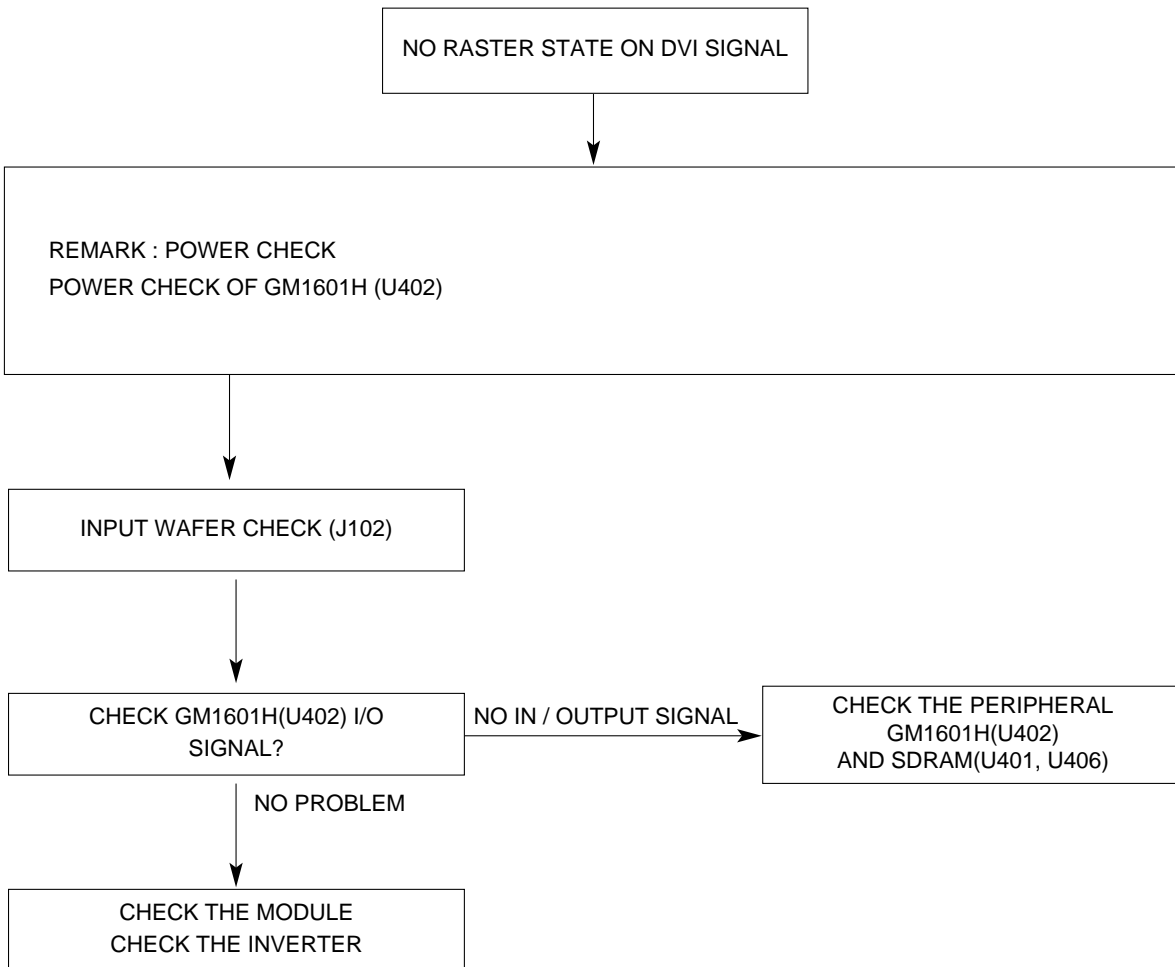
3. NO RASTER STATE ON VIDEO SIGNAL



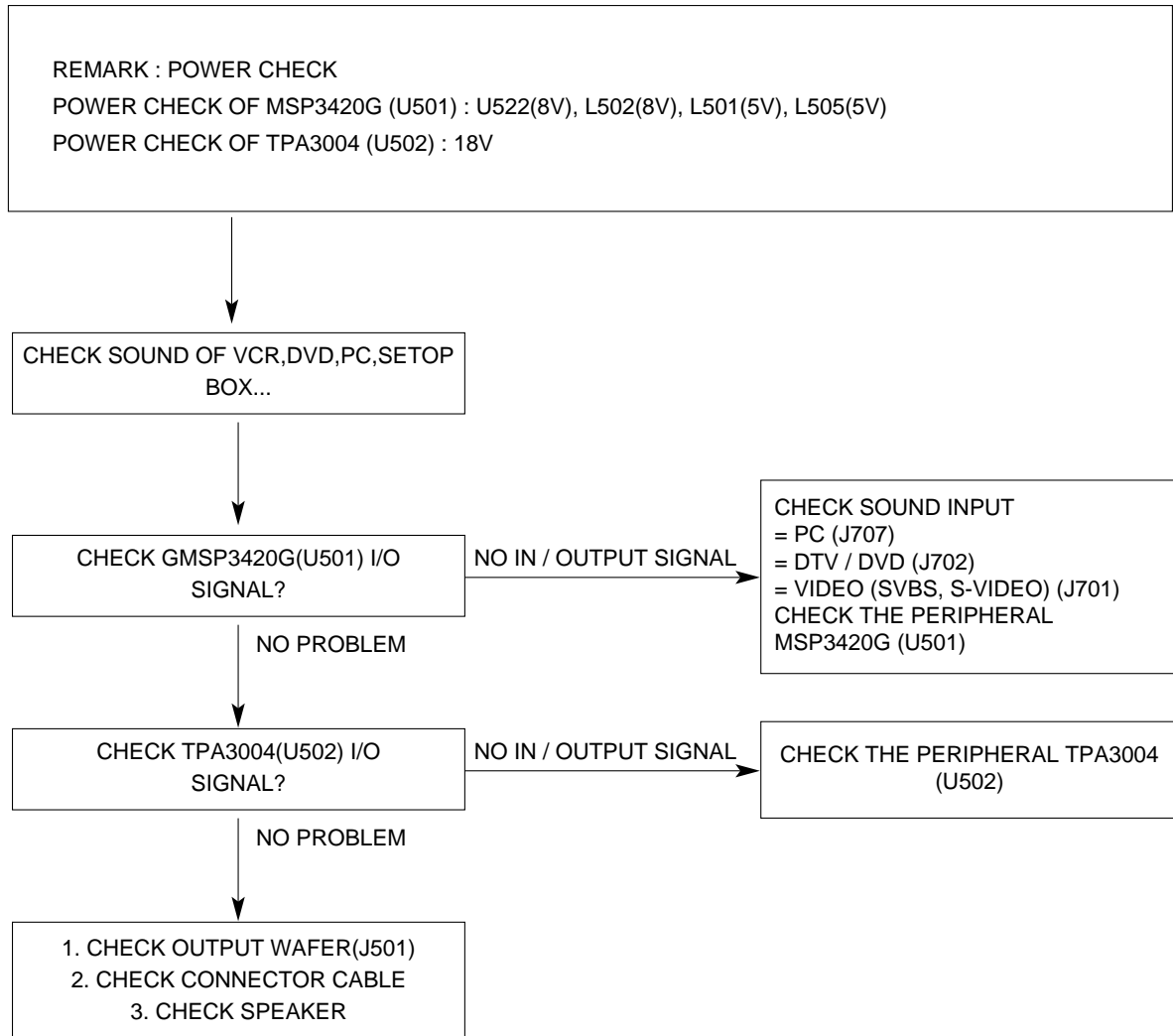
4. NO RASTER STATE ON RGB SIGNAL



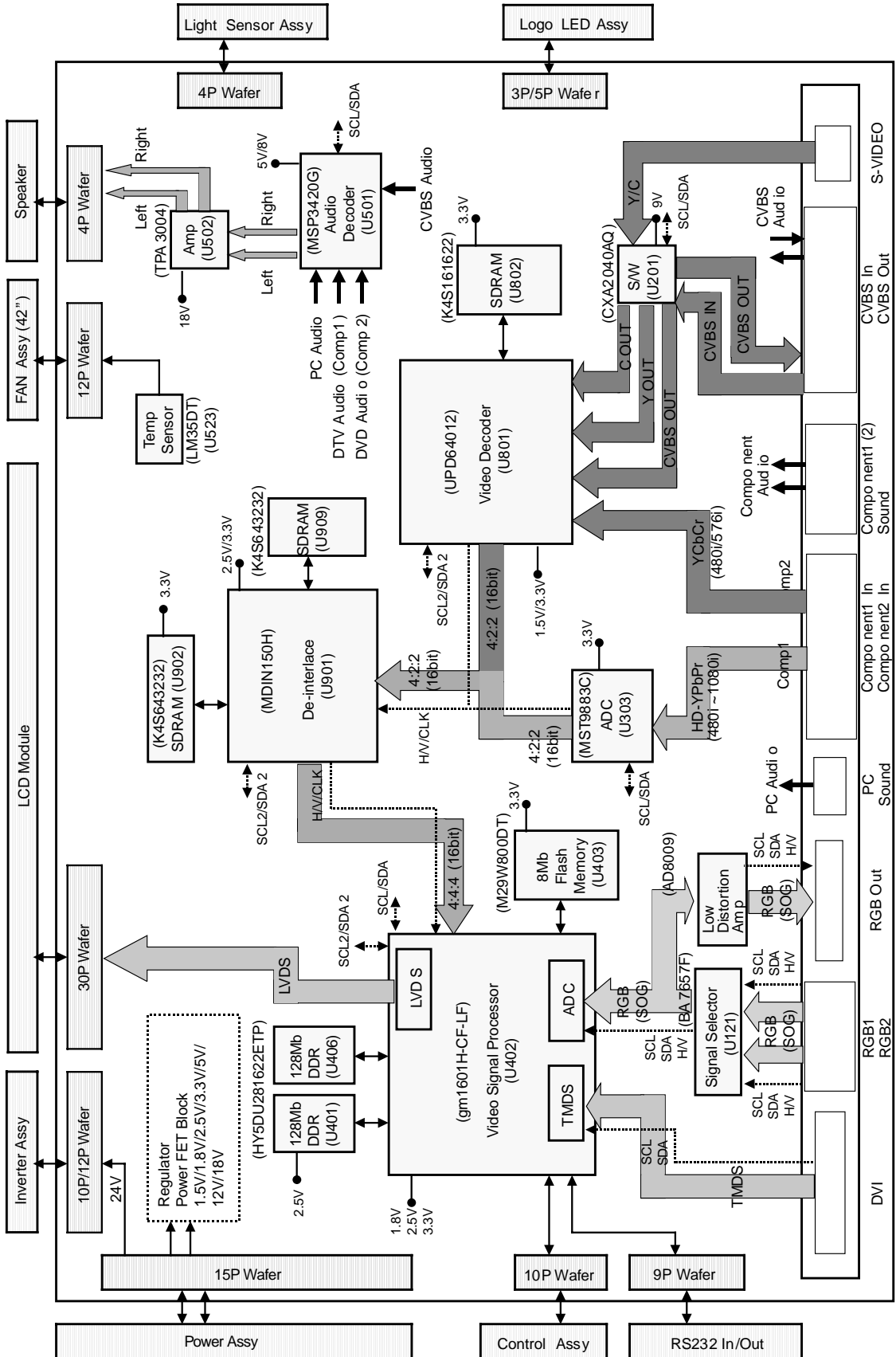
5. NO RASTER STATE ON DVI SIGNAL



6. SOUND TROUBLE SHOOTING



BLOCK DIAGRAM



BLOCK DIAGRAM DESCRIPTION

1. INPUT SELECTION CIRCUIT

- 1) D-SUB RGB INPUT SELECT : This section is composed of Signal selector IC(BA7657F_U121) and peripheral devices. The BA7657F(U121) IC select RGB1 signal or RGB2 signal and the signal is sent to gm1601H(U402).
- 2) VIDEO INPUT SELECT : This section is composed of Video switching IC(CXA204Q_U201) and peripheral devices. Video switching IC(CXA204Q_U201) select CVBS video or S-video and the signal is sent to Video decoder (UPD64012)
- 3) DVI signal input is directly fed to SCALER, DTV(Component1) signal input is given to Scaler IC(U402) via MST9883C(U303).
DVD(Component2) signal input is given to Scaler IC via Video Decoder IC(UPD64012_U801).

2. DDC COTROLLER

This section is composed gm1601H(U402) ,EEPROM IC (U404, U115, U120) and peripheral devices. gm1601H(U402) is controlling peripheral devices through IIC Line.

Major functions of this block are :

- (1) Controlling of u-COM and Flash memory through DDC-SCLA, DDC-SDAA of D-sub connector.
- (2) Storage of EDID DATA in the EEPROM(U115, U120).

3. ANALOG DIGITAL CONVERTER

This section is composed of MST9883C(U303) and peripheral devices. gm1601H(U402) is controlling MST9883C through IIC Line.

This IC is converting DTV(YPbPr) signal in to 16 bit Interlace signal and the signal is sent to De-interlace IC(MDIN150H_U901)

This output signal have CONTRAST, BRIHTNESS, SHARPNESS, COLOR, TINT information.

4. VIDEO DECODER

This section is composed of UPD64012(U801) and peripheral devices.

gm1601H(U402) is controlling UPD64012 through IIC Line.

This IC is controlling CVBS input signal ,S-VIDEO(Y/C) input signal and DVD(YCbCr) input signal and converting input signals in to 16 bit interlace signal and the signal is sent to De-interlace IC(U901).

This output signal have CONTRAST, BRIHTNESS, SHARPNESS, COLOR, TINT information.

5. DE-INTERLACER

This section is composed of MDIN150H(U901) and peripheral devices.

gm1601H(U402) is controlling MDIN150H through IIC Line.

This IC is converting 16bit interlace input signal in to 16bit De-interlace signal and the signal is sent to Video Signal Processor IC(gm1601H_U402).

6. AUDIO DECODER

This section is composed of MSP3420G(U501) and peripheral devices.

gm1601H(U402) is controlling MSP3420G through IIC Line. This IC is processing audio signal output of A/V Jack, PC Audio Jack.

This IC's output signal is sent to Audio Amplifier IC (TPA3004_U502).

7. AUDIO AMPLIFIER

This section is composed of TPA3004(U502) OR TPA3001 (U507) and peripheral devices.

Audio Amplifier's function is amplification of sound signal received from Audio Decoder.

Input Audio signal is amplified according to the DC Volume control curve.

8. VIDEO SIGNAL PROCESSOR (FORMAT CONVERTER)

This section is composed of gm1601H(U402) and peripheral devices.

gm1601H(SCALER_U402) have in built u-COM in IC.

(1) This IC include A/D Converter, Pre-Amp, PLL Circuit.

(2) This IC include TMDS Receiver and LVDS Transmitter.

TMDS Receiver is decoding input DVI Signal and LVDS Transmitter is encoding the output Signal .

Also, gm1501H have Format Converter (Scaling) function.

This IC convert Various sized Digital signal to LCD Module's resolution (Full HD Format).

9. DC/DC COVERTER

DC/DC Converters change Power output voltage (DC 5V, 12V, 24V) to 1.5V, 2.5V, 3.3V, 5V, 8V, 9V.

(To be used by different IC on the main board.)

10. TEMPERATURE SENSING AND FAN CONTROL

This section is composed of LM35DT(U523), KIA358F(U524) and peripheral devices.

The temperature at surface of LM35DT(U523) is sensed and converted to HEX code by KIA358(U524).

gm1601H(U402) receives sensing HEX values from KIA358F(U524)and control FAN.

11. LIGHT SENSING AND BRIGHTNESS CONTROL

This section is composed of Sensor Board Assy's TLS2550(U702) and peripheral devices.

TLS2550(U702) IC senses amount of ambient light and converts to HEX CODE.

gm1601H(U402) receives sensing HEX values and controls System's Brightness.

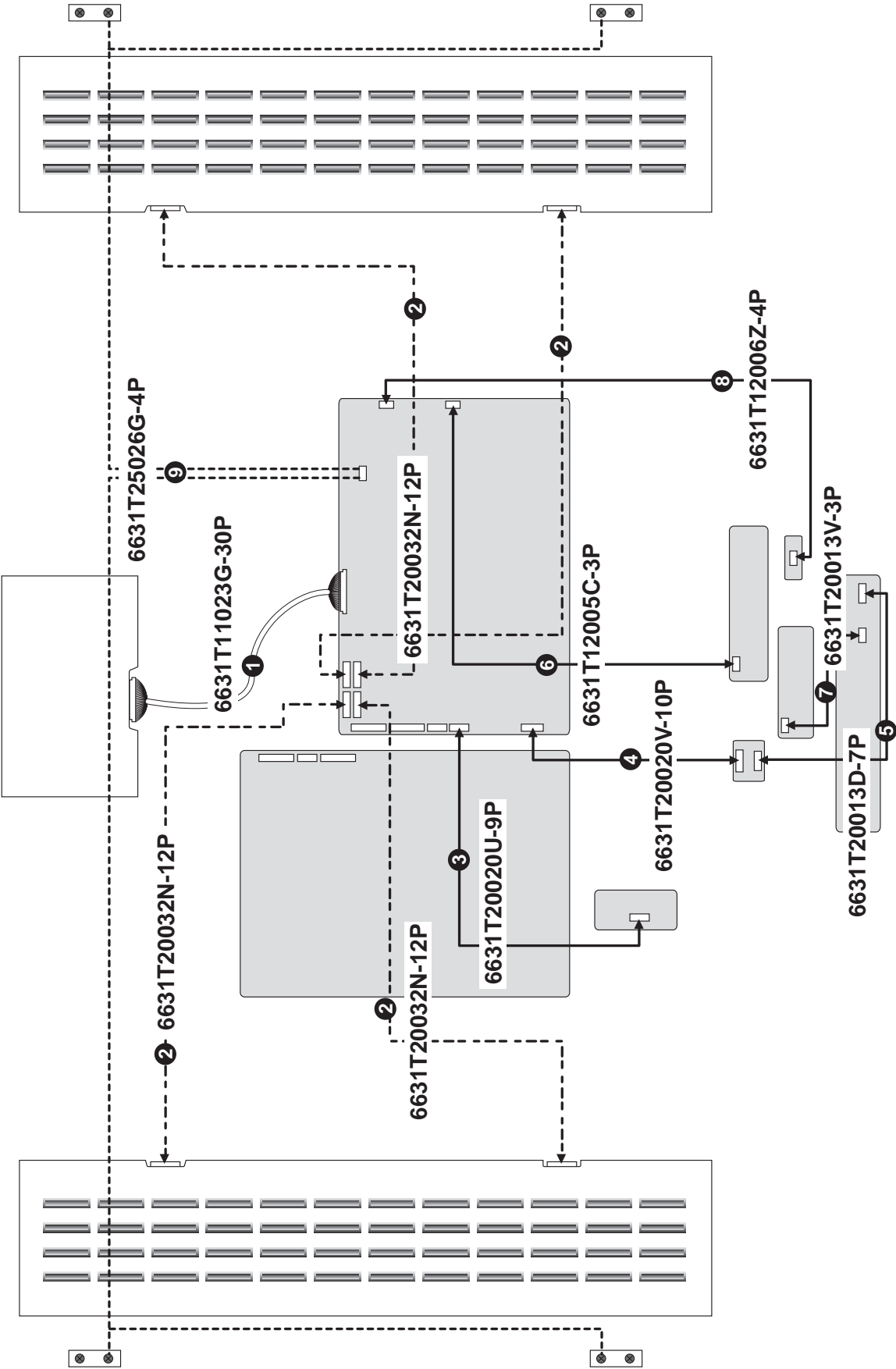
12. POWER SUPPLY BLOCK

Power supply receives AC voltage (100-240 V, 50/60Hz.) and converts to System voltage that are 5V, 12V, 18V and 24V DC voltage.

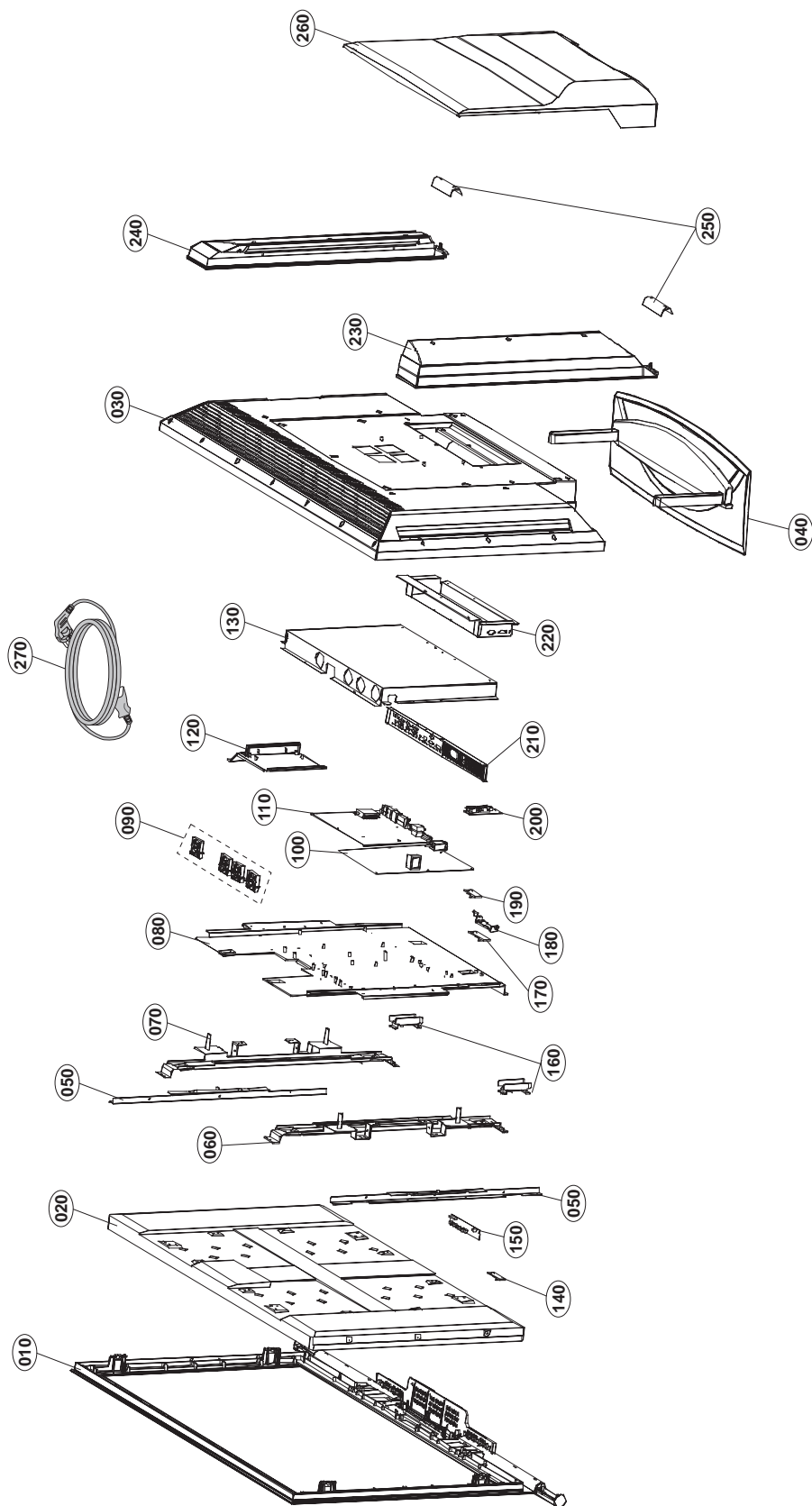
These voltages supports main board, inverter board and module's T-con board.

This Circuit contains PFC(Power Factor Correction) circuit. The Minimum Power efficiency is about 75%.

WIRING DIAGRAM



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	PART NO.	DESCRIPTION
010	3091TKE020K	CABINET ASSEMBLY, 55LP1M BRAND 3090TKE017A NON
020	6304FLP296A	LCD(LIQUID CRYSTAL DISPLAY), LC550W01-A5K2 LG PHILPS TFT COLOR A5K1+STATUS PIN
	or 6304FLP205A	LCD(LIQUID CRYSTAL DISPLAY), LC550W01-A5K1 LG PHILPS TFT COLOR AI/ODC
030	3809TKE023C	BACK COVER ASSEMBLY, M5500C . COMMERICAL
040	3043TKK215C	TILT SWIVEL ASSEMBLY, M5500C . SWIVEL.
050	4950TKK967A	METAL, SUPPORT SIDE MODULE RZ-55LP10
060	4951TKK217A	METAL ASSEMBLY, FRAME LEFT DN-55LP10
070	4951TKK216A	METAL ASSEMBLY, FRAME DN-55LP10 RIGHT
080	4950TKS318C	METAL, FRAME, MAIN M5500C
090	4951TKS238E	METAL ASSEMBLY, FIX FAN ASSY NOT ASSEMBLE PARTS PPB ONLY M46/5500
100	6871TPT320C	PWB(PCB) ASSEMBLY,POWER, M5500C COMMERCIAL POWER TOTAL BRAND WITHOUT RS-232
110	3313TL4010C	MAIN TOTAL ASSEMBLY, 55LP1M-WC BRAND CL-80
120	4950TKK968A	METAL, SUPPORT SIDE BOARD RZ-55LP10
130	4950TKA367A	METAL, SHIELD, M5500C COMMERCIAL
140	6871TST6621	PWB(PCB) ASSEMBLY,SUB, M5500C ETC TOTAL BRAND IR BOARD (ADD CONNECTOR)
150	6871TSTB54A	PWB(PCB) ASSEMBLY,SUB, M5500C CONTROL TOTAL BRAND COMMERCIAL
160	4950TKK971A	METAL, SUPPORT C/A BOTTOM RZ-55LP10
170	6871TST791B	PWB(PCB) ASSEMBLY,SUB, M5500C LED & P/SW TOTAL BRAND COMMERCIAL (ADD CONNECTOR)
180	6871TST775B	PWB(PCB) ASSEMBLY,SUB, M5500C LED & P/SW TOTAL BRAND LOGO LIGHT BOARD (WITH CONNECTOR)
190	6871TSTA02A	PWB(PCB) ASSEMBLY,SUB, M4600C (PB FREE) SUB TOTAL BRAND (LIGHT SENSOR)
200	6871TKT302A	PWB(PCB) ASSEMBLY,INTERFACE, M5500C INTERFACE TOTAL BRAND (COMMERCIAL RS232 BOARD)
210	4950TKA286B	METAL, REAR POWER BRACKET M5500C
220	3550TKK630C	COVER, M5500 REAR FOR COMMERICAL
230	6401TZZ056B	SPEAKER ASSEMBLY, M5500C LEFT FRONT BK
240	6401TZZ055B	SPEAKER ASSEMBLY, M5500C RIGHT FRONT BK
250	4950TKK978A	METAL, PLATE AL DECO SPK REAR RZ-55LP10
260	3551TKK556C	COVER ASSEMBLY, M5500C TOTAL . COMMERICAL
270	6410TCW007A	POWER CORD, LSG-31+LS-70 LONGWELL CCC 1870MM WALL CD/PB FREE BLACK- For china
	6410TUW008A	POWER CORD, LP31+LS13 LONGWELL UL/CSA 1870MM WALL CD/PB FREE BLACK- For U.S.A

REPLACEMENT PARTS LIST

For Capacitor & Resistors, the characters at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN, CH : Ceramic
CQ : Polyester
CE : Electrolytic
CF : Fixed Film

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RH : CHIP, Metal Glazed(Chip)
RR : Drawing

DATE: 2005. 11. 01.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
CAPACITOR				
		C102	0CE477EF638	470UF KMG 16V M FM5 TP 5
		C105	0CE477EF638	470UF KMG 16V M FM5 TP 5
		C110	0CE477EF638	470UF KMG 16V M FM5 TP 5
		C151	0CE477EF638	470UF KMG 16V M FM5 TP 5
		C612	0CE477EF638	470UF KMG 16V M FM5 TP 5
		C619	0CE477EF638	470UF KMG 16V M FM5 TP 5
		C623	0CE477EF638	470UF KMG 16V M FM5 TP 5
		C680	0CE477EF638	470UF KMG 16V M FM5 TP 5
		C681	0CE477EF638	470UF KMG 16V M FM5 TP 5
		C225	0CH8336H611	33UF 25V M 85STD(CYL) R/TP
		C118	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C149	0CH5471K416	470PF 50V 5% NP0 2012 R/TP
		C206	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C226	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C234	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C289	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C292	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C306	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C320	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C369	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C370	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C373	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C377	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C379	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C401	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C402	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C408	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C4101	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C414	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C415	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C416	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C417	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C418	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C420	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C433	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C434	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C435	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C436	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C438	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C441	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C442	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C443	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C459	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C460	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C461	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C462	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C468	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C469	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C470	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C471	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C472	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C473	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C474	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C475	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C476	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

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		C477	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C478	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C479	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C480	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C481	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C482	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C483	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C484	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C487	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C488	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C489	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C490	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C491	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C492	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C493	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C494	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C495	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C496	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C497	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C498	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C499	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C523	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C530	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C531	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C532	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C537	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C546	0CH5560K416	56PF 50V 5% NP0 2012 R/TP
		C548	0CH5560K416	56PF 50V 5% NP0 2012 R/TP
		C578	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C583	0CH3105H946	"1UF 2012 25V 80%,-20% F(Y5V)"
		C584	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C602	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C614	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C625	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C633	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C645	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C648	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C655	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C664	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C669	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C802	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C805	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C807	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C809	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C811	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C813	0CK106EF56A	10UF 3216 16V 10% X7R R/TP
		C818	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C819	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C823	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C824	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C825	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C826	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C827	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C828	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

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		C508	0CK224CF56A	0.22UF 1608 16V 10% R/TP X7
		C509	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C510	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C511	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C512	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C513	0CK224CF56A	0.22UF 1608 16V 10% R/TP X7
		C514	0CK224CF56A	0.22UF 1608 16V 10% R/TP X7
		C515	0CK224CF56A	0.22UF 1608 16V 10% R/TP X7
		C519	0CK224CF56A	0.22UF 1608 16V 10% R/TP X7
		C529	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C533	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C535	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C542	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/"
		C543	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C545	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C547	0CH3105H946	"1UF 2012 25V 80%,-20% F(Y5V"
		C549	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/"
		C550	0CK105CF94A	"1UF 1608 16V 80%,-20% R/TP"
		C551	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/"
		C553	0CK105CF94A	"1UF 1608 16V 80%,-20% R/TP"
		C554	0CK105CF94A	"1UF 1608 16V 80%,-20% R/TP"
		C555	0CK105CF94A	"1UF 1608 16V 80%,-20% R/TP"
		C556	0CK105CF94A	"1UF 1608 16V 80%,-20% R/TP"
		C557	0CK152CK51A	1500PF 1608 50V 10% R/TP B(
		C558	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/"
		C559	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C560	0CK152CK51A	1500PF 1608 50V 10% R/TP B(
		C563	0CH3105H946	"1UF 2012 25V 80%,-20% F(Y5V"
		C565	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C566	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C567	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/"
		C568	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C570	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/"
		C571	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/"
		C572	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C574	0CK332CK51A	3300PF 1608 50V 10% R/TP B(
		C575	0CK332CK51A	3300PF 1608 50V 10% R/TP B(
		C576	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/"
		C579	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C580	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C582	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C586	0CK105CF94A	"1UF 1608 16V 80%,-20% R/TP"
		C604	0CK105CF94A	"1UF 1608 16V 80%,-20% R/TP"
		C606	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C607	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C609	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C610	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C611	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C615	0CK105CF94A	"1UF 1608 16V 80%,-20% R/TP"
		C617	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C620	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C621	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C622	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C629	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C634	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C639	0CK105CF94A	"1UF 1608 16V 80%,-20% R/TP"
		C654	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C656	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C660	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C661	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C679	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C682	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R

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		C683	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C684	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C801	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C803	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C804	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C806	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C808	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C810	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C812	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C814	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C815	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C816	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C817	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C820	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C821	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C822	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C852	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C853	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C854	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C860	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C861	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C862	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C9010	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C9011	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C905	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C906	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C909	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C918	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C926	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C934	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C935	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C954	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C955	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C112	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C117	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C119	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C120	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C121	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C123	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C140	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C143	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C231	0CC680CK41A	68PF 1608 50V 5% R/TP NP0
		C340	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C425	0CC270CK41A	27PF 1608 50V 5% R/TP NP0
		C426	0CC270CK41A	27PF 1608 50V 5% R/TP NP0
		C429	0CC150CK41A	15PF 1608 50V 5% R/TP NP0
		C430	0CC270CK41A	27PF 1608 50V 5% R/TP NP0
		C463	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C464	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C503	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C504	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C539	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C540	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C541	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C544	0CC560CK41A	56PF 1608 50V 5% R/TP NP0
		C552	0CC3R3CK01A	3.3PF 1608 50V 0.25 PF R/TP
		C561	0CC271CK41A	270PF 1608 50V 5% R/TP NP0
		C562	0CC3R3CK01A	3.3PF 1608 50V 0.25 PF R/TP
		C569	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C573	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C605	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C618	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0

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		C636	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C702	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C704	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C706	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C708	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C713	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C714	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C720	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
		C725	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C726	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C727	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C728	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C730	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C732	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C848	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C849	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C901	0CC3R3CK01A	3.3PF 1608 50V 0.25 PF R/TP
		C9012	0CC821CK41A	820PF 1608 50V 5% R/TP NP0
		C902	0CC3R3CK01A	3.3PF 1608 50V 0.25 PF R/TP
		C948	0CC821CK41A	820PF 1608 50V 5% R/TP NP0
		C1002	0CE107WH6DC	100UF MVK 25V 20% R/TP(SMD)
		C1061	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C125	0CE476VC6DC	47UF MV 6.3V 20% R/TP(SMD)
		C127	0CE476VC6DC	47UF MV 6.3V 20% R/TP(SMD)
		C133	0CE476VC6DC	47UF MV 6.3V 20% R/TP(SMD)
		C139	0CE476VC6DC	47UF MV 6.3V 20% R/TP(SMD)
		C145	0CE476VC6DC	47UF MV 6.3V 20% R/TP(SMD)
		C147	0CE476VC6DC	47UF MV 6.3V 20% R/TP(SMD)
		C205	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C212	0CE225VK6DC	2.2UF MV 50V 20% R/TP(SMD)
		C222	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD)
		C227	0CE225VK6DC	2.2UF MV 50V 20% R/TP(SMD)
		C228	0CE225VK6DC	2.2UF MV 50V 20% R/TP(SMD)
		C233	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD)
		C238	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD)
		C288	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C291	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C304	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C305	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD)
		C349	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C366	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C407	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C410	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD)
		C437	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C5015	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C5019	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C505	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD)
		C516	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C517	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C524	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C525	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C526	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C527	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C528	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C534	0CH8476H691	47UF 25V 20% 105STD (CYL) R
		C536	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C538	0CH8476H691	47UF 25V 20% 105STD (CYL) R
		C564	0CH8476H691	47UF 25V 20% 105STD (CYL) R
		C577	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C581	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C585	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C587	0CH8106F691	10UF 16V 20% 105STD (CYL) R

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		C588	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C601	0CH8476K611	47UF 50V 20% 85STD (CYL) R/
		C603	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD)
		C608	0CH8476K611	47UF 50V 20% 85STD (CYL) R/
		C616	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD)
		C624	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C626	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C627	0CH8476K611	47UF 50V 20% 85STD (CYL) R/
		C642	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C646	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C651	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD)
		C659	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD)
		C662	0CH8476K611	47UF 50V 20% 85STD (CYL) R/
		C666	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C667	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C671	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C678	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C735	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD)
		C846	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD)
		C847	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD)
		C850	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD)
		C904	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C914	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD)
		C915	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD)
		C916	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C925	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C931	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C936	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C953	0CH8226F691	22UF 16V 20% 105STD (CYL) R
DIODEs				
		U102	0DRCE00018A	"PACDN004SR,LF CAMD R/TP SOT"
		U105	0DRCE00018A	"PACDN004SR,LF CAMD R/TP SOT"
		U108	0DRCE00018A	"PACDN004SR,LF CAMD R/TP SOT"
		U109	0DRCE00018A	"PACDN004SR,LF CAMD R/TP SOT"
		D1002	0DD184009AA	KDS184 TP KEC - 85V - - - 3
		D1003	0DD184009AA	KDS184 TP KEC - 85V - - - 3
		D101	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D102	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D103	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D104	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D105	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D106	0DD184009AA	KDS184 TP KEC - 85V - - - 3
		D107	0DD184009AA	KDS184 TP KEC - 85V - - - 3
		D108	0DD184009AA	KDS184 TP KEC - 85V - - - 3
		D109	0DD184009AA	KDS184 TP KEC - 85V - - - 3
		D110	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D111	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D112	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D113	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D114	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D115	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D116	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D117	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D118	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D119	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D120	0DD184009AA	KDS184 TP KEC - 85V - - - 3
		D121	0DD184009AA	KDS184 TP KEC - 85V - - - 3
		D130	0DSON00138A	"MMBD301LT1G,LF ON SEMI R/TP"
		D131	0DSON00138A	"MMBD301LT1G,LF ON SEMI R/TP"
		D132	0DSON00138A	"MMBD301LT1G,LF ON SEMI R/TP"

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		D505	0DSON00138A	"MMBD301LT1G,LF ON SEMI R/TP"
		D506	0DSON00138A	"MMBD301LT1G,LF ON SEMI R/TP"
		D507	0DSON00138A	"MMBD301LT1G,LF ON SEMI R/TP"
		D508	0DSON00138A	"MMBD301LT1G,LF ON SEMI R/TP"
		D603	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D604	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D605	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		ZD1001	0DZ360009EB	UDZ 3.6B TP ROHM SOD323 200
		ZD501	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD502	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD101	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD102	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD103	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD104	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD105	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD106	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD107	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD108	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD109	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD110	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD111	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD112	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD113	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD114	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD401	0DZ910009FE	UDZS 9.1B TP ROHM - - 9.1V
		ZD402	0DZ910009FE	UDZS 9.1B TP ROHM - - 9.1V
		ZD403	0DZ910009FE	UDZS 9.1B TP ROHM - - 9.1V
		ZD404	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD503	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD504	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD505	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD601	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD603	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD701	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD702	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD703	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD704	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD705	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD706	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD707	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD708	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD709	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD710	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD711	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD712	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD713	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD714	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD715	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD716	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD719	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD720	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD721	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD722	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD723	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD724	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
IC				
		U524	0IKE358000P	KIA358F 8P FLP-8 TP OP-AMP
		U403	0IMMRSG014C	M29W800DT70N SGS-THOMSON 48
		U114	0ISS524202B	"S524A40X21-SCT0, LF SAMSUNG"
		U115	0ISS524202B	"S524A40X21-SCT0, LF SAMSUNG"

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		U120	0ISS524202B	"S524A40X21-SCT0, LF SAMSUNG"
		U401	0IMMRHY052C	"HY5DU281622ETP-5,PB FREE HY"
		U404	0IMMRSS040C	"S524A60X51-SC70,LF SAMSUNG"
		U406	0IMMRHY052C	"HY5DU281622ETP-5,PB FREE HY"
		U802	0ISS416162D	K4S161622H-UC80 SAMSUNG ELE
		U902	0IMMRSS037F	"K4S643232H-UC60,LF SAMSUNG"
		U909	0IMMRSS037F	"K4S643232H-UC60,LF SAMSUNG"
		U201	0ISO204000A	"CXA2040AQ 32P,QFP BK IIC BU"
		U523	0IPRPNS030A	"LM35DZ,NOPB NATIONAL SEMICO"
		U116	0IPRPAD024A	"AD8009JRTZ,LF ANALOG DEVICE"
		U117	0IPRPAD024A	"AD8009JRTZ,LF ANALOG DEVICE"
		U118	0IPRPAD024A	"AD8009JRTZ,LF ANALOG DEVICE"
		U303	0IPRPM3002D	"MST9883C-LF-110 MSTAR 80P,L"
		U402	0IPRPGN007C	GM1601H-CF-LF(LEAD FREE) GE
		U501	0IPRPMN001C	MSP3420G-C12-100 MICRONAS 8
		U502	0IPRPTI036B	"TPA3004D2PHPRG4,LF TEXAS IN"
		U503	0IPRPJR017A	"NJU26901E2 JRC 8P,EMP R/TP"
		U505	0IPRPTI015A	MAX232DR TEXAS INSTRUMENT 1
		U801	0IPRPNE011A	"UPD64012GJ-8EN-A,PB FREE NE"
		U901	0IPRPM7001C	"MDIN-150H,ROHS,CHIP REVISIO"
		Q404	0IKE704200J	KIA7042AF SOT-89 TP 4.2V VO
		Q506	0IKE704200J	KIA7042AF SOT-89 TP 4.2V VO
		U204	0IPMGKE036A	KIA78DL09F KEC DPARK R/TP 9
		U304	0IPMGA0010A	AZ1117H-3.3 AAC SOT-223 3P
		U504	0IPMGFA003F	"FAN1117AS25X,LF FAIRCHILD S"
		U608	0IPMGKE036A	KIA78DL09F KEC DPARK R/TP 9
		U609	0IPMGSG020A	"LD1117DT18TR,LF SGS-THOMSON"
		U611	0IPMGSG020A	"LD1117DT18TR,LF SGS-THOMSON"
		U612	0IPMGFA003F	"FAN1117AS25X,LF FAIRCHILD S"
		U614	0IPMGA0010A	AZ1117H-3.3 AAC SOT-223 3P
		U616	0IPMGA0010A	AZ1117H-3.3 AAC SOT-223 3P
		U803	0IPMGA0010A	AZ1117H-3.3 AAC SOT-223 3P
		U804	0IPMGRH001D	"BA15BC0FP-E2 ROHM 3P,TO252"
		U907	0IPMGA0010A	AZ1117H-3.3 AAC SOT-223 3P
		U908	0IPMGFA003F	"FAN1117AS25X,LF FAIRCHILD S"
		U121	0IRH765700B	"BA7657F 24P,SOP TP INPUT SI"
		U101	0ISS780800J	"KA78M08R 3P,D-PAK TP VOL. R"
		U203	0ISS780500H	"KA78M05-R 3P,D-PAK TP 5V 0."
		U522	0ISS780800J	"KA78M08R 3P,D-PAK TP VOL. R"
		U119	0ISTLFA058A	"74F14SCX FAIRCHILD 14P,SOIC"
		U122	0ISTL00026A	"MC14066BDR2G,LF ON SEMI 14P"
		U123	0ISTLFA058A	"74F14SCX FAIRCHILD 14P,SOIC"
		U124	0ISTLFA058A	"74F14SCX FAIRCHILD 14P,SOIC"
		U506	0IMCRTI001A	"SN74HCT157DR,LF TEXAS INST"
		U610	0ISTLT1049A	"CD4052BPWR,LF TEXAS INSTRUM"
COIL & CORE & INDUCTOR & FILTER				
		L511	6140TBZ007E	"SLF12575T-330M3R2,TDK SMD C"
		L512	6140TBZ007E	"SLF12575T-330M3R2,TDK SMD C"
		L513	6140TBZ007E	"SLF12575T-330M3R2,TDK SMD C"
		L514	6140TBZ007E	"SLF12575T-330M3R2,TDK SMD C"
		L409	6210TCE001F	HB-1S2012-800JT CERATEC 201
		L410	6210TCE001F	HB-1S2012-800JT CERATEC 201
		L920	6210TCE001P	HB-1S2012-121JT CERATECH 20
		L613	6210TCE001H	HB-1T2012-301JT CERATEC 201
		L701	6210TCE001P	HB-1S2012-121JT CERATECH 20
		L702	6210TCE001P	HB-1S2012-121JT CERATECH 20
		L704	6210TCE001P	HB-1S2012-121JT CERATECH 20
		L705	6210TCE001P	HB-1S2012-121JT CERATECH 20
		L706	6210TCE001P	HB-1S2012-121JT CERATECH 20
		L707	6210TCE001P	HB-1S2012-121JT CERATECH 20

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		L710	6210TCE001F	HB-1S2012-800JT CERATEC 201
		L711	6210TCE001F	HB-1S2012-800JT CERATEC 201
		L712	6210TCE001H	HB-1T2012-301JT CERATEC 201
		L713	6210TCE001H	HB-1T2012-301JT CERATEC 201
		L204	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L215	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L216	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L411	6200J00005N	HH-1M2012-121 CERATECH R/TP
		L412	6200J00005N	HH-1M2012-121 CERATECH R/TP
		L618	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L620	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L627	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L801	6210TCE001Z	HH-1M2012-600JT CERATEC R/T
		L802	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L803	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L804	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L101	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L1010	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1012	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L103	6210TCE001Y	HB-1H2012-320JT CERATEC 201
		L104	6210TCE001Y	HB-1H2012-320JT CERATEC 201
		L107	6210TCE001Y	HB-1H2012-320JT CERATEC 201
		L108	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L109	6210TCE001Y	HB-1H2012-320JT CERATEC 201
		L110	6210TCE001Y	HB-1H2012-320JT CERATEC 201
		L111	6210TCE001Y	HB-1H2012-320JT CERATEC 201
		L112	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L113	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L114	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L115	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L201	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L213	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L214	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L307	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L308	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L309	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L401	6210TCE001Y	HB-1H2012-320JT CERATEC 201
		L402	6210TCE001Y	HB-1H2012-320JT CERATEC 201
		L403	6210TCE001Y	HB-1H2012-320JT CERATEC 201
		L404	6210TCE001Y	HB-1H2012-320JT CERATEC 201
		L405	6210TCE001Y	HB-1H2012-320JT CERATEC 201
		L406	6210TCE001Y	HB-1H2012-320JT CERATEC 201
		L407	6210TCE001Y	HB-1H2012-320JT CERATEC 201
		L408	6210TCE001Y	HB-1H2012-320JT CERATEC 201
		L501	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L502	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L503	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L504	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L505	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L506	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L507	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L508	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L509	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L510	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L515	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L601	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L602	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L603	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L604	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L605	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L606	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L607	6210TCE001G	HH-1M3216-501 CERATEC 3216M

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		L608	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L614	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L615	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L616	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L617	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L619	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L621	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L622	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L624	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L625	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L626	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L631	6200J00005N	HH-1M2012-121 CERATECH R/TP
		L632	6200J00005N	HH-1M2012-121 CERATECH R/TP
		L633	6200J00005N	HH-1M2012-121 CERATECH R/TP
		L634	6200J00005N	HH-1M2012-121 CERATECH R/TP
		L718	6200J00005N	HH-1M2012-121 CERATECH R/TP
		L719	6200J00005N	HH-1M2012-121 CERATECH R/TP
		L901	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L902	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L903	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L904	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L905	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L906	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L921	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		R601	6200J00005N	HH-1M2012-121 CERATECH R/TP
		R630	6200J00005N	HH-1M2012-121 CERATECH R/TP
		R632	6200J00005N	HH-1M2012-121 CERATECH R/TP
		L703	0LC2000005D	"F1-B2012-332KJT,3.3 UH CERA"
TRANSISTOR				
		Q101	0TR162309CA	KSC1623 TP SAMSUNG SOT23 N
		Q401	0TR162309CA	KSC1623 TP SAMSUNG SOT23 N
		Q402	0TR162309CA	KSC1623 TP SAMSUNG SOT23 N
		Q403	0TR162309CA	KSC1623 TP SAMSUNG SOT23 N
		Q405	0TR162309CA	KSC1623 TP SAMSUNG SOT23 N
		Q406	0TR162309CA	KSC1623 TP SAMSUNG SOT23 N
		Q407	0TR162309CA	KSC1623 TP SAMSUNG SOT23 N
		Q501	0TR162309CA	KSC1623 TP SAMSUNG SOT23 N
		Q502	0TR162309CA	KSC1623 TP SAMSUNG SOT23 N
		Q503	0TR162309CA	KSC1623 TP SAMSUNG SOT23 N
		Q504	0TR162309CA	KSC1623 TP SAMSUNG SOT23 N
		Q505	0TR162309CA	KSC1623 TP SAMSUNG SOT23 N
		Q601	0TR162309CA	KSC1623 TP SAMSUNG SOT23 N
		Q602	0TR162309CA	KSC1623 TP SAMSUNG SOT23 N
		Q206	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1001	0TR102009AJ	KRC102S KEC REEL TAPING SOT
		Q1002	0TR102009AJ	KRC102S KEC REEL TAPING SOT
		Q201	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q202	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q203	0TR390409AE	FAIRCHILD KST3904(LGEMTF) T
		Q204	0TR390409AE	FAIRCHILD KST3904(LGEMTF) T
		Q205	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q207	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q209	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q210	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q211	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q212	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q510	0TR390609FA	FAIRCHILD KST3906-MTF TP SO
		U1002	0TFIR80016B	"IRF7342TRPBF,LF INTERNATIONAL"
		U601	0TFV180067A	SI3865BDV(E3) VISHAY R/TP T
		U602	0TFV180067A	SI3865BDV(E3) VISHAY R/TP T

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		U603	0TFIR80009D	"IRF7316TRPBF,LF INTERNATION"
		U607	0TFFC80009A	FAIRCHILD FDC6326L R/TP SOT
RESISTORS				
		RA301	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA305	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA307	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA325	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA401	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA402	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA403	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA404	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA405	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA406	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA407	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA408	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA409	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA410	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA411	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA801	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5%
		RA802	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5%
		RA803	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5%
		RA804	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5%
		RA805	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5%
		RA806	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5%
		RA807	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5%
		RA808	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5%
		RA809	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5%
		RA810	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5%
		RA811	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5%
		RA812	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5%
		RA813	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5%
		RA901	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5%
		RA902	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5%
		RA903	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA904	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA905	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA906	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA907	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA908	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA909	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA910	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA911	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA912	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA913	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA914	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA915	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA929	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5%
		RA930	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA931	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA932	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA933	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA934	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA935	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA936	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		RA937	0RHZTCZ001D	RCA SMART 220HM 1/16 W 5% 3
		R1055	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1056	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R129	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R4003	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R4004	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R4005	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R4006	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R4007	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R4016	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R4017	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R4018	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R409	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R418	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R419	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R420	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R426	0RH2701D622	2.7K OHM 1 / 10 W 2012 5.00
		R428	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R430	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R431	0RH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R440	0RH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R444	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R452	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R454	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R455	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R456	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R459	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R469	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R470	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R471	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R478	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R480	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R481	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R482	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R483	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R488	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R489	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R498	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R5024	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R540	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R542	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R543	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R546	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R817	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R822	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R905	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R913	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R914	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R961	0RH3300D622	330 OHM 1 / 10 W 2012 5.00%
		L708	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L709	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R100	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1001	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1002	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1003	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1004	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R101	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R102	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R103	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R1034	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R1035	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R1036	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R1037	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1038	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R104	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R1042	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R1049	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R105	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1050	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R1051	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1052	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R1053	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R1054	0RJ2002D677	20000 OHM 1/10 W 5% 1608 R/
		R106	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R1068	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R1069	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R1070	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R1071	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R1072	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
		R1075	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1076	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1077	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1078	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1079	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R108	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R1080	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R109	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1090	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1091	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1092	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1093	0RH0562D622	56 OHM 1 / 10 W 2012 5.00%
		R110	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R113	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R114	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R116	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R117	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R118	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R119	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R120	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R121	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R122	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R124	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R125	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R126	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R127	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R128	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R130	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R131	0RJ6802D677	68K OHM 1/10 W 5% 1608 R/TP
		R132	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R133	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
		R134	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R135	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R136	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R137	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R138	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R139	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R140	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R141	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R142	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R143	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R144	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R145	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R146	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R147	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R148	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R149	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R150	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R151	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R152	0RJ8200D677	820 OHM 1/10 W 5% 1608 R/TP
		R153	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R154	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R155	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R156	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R158	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R160	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R161	0RJ2002D677	20000 OHM 1/10 W 5% 1608 R/
		R162	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R163	0RJ0752D477	75 OHM 1/10 W 1% 1608 R/TP
		R165	0RJ3300D477	330 OHM 1/10 W 1% 1608 R/TP
		R166	0RJ3300D477	330 OHM 1/10 W 1% 1608 R/TP
		R167	0RJ2002D677	20000 OHM 1/10 W 5% 1608 R/
		R168	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R169	0RJ0752D477	75 OHM 1/10 W 1% 1608 R/TP
		R171	0RJ3300D477	330 OHM 1/10 W 1% 1608 R/TP
		R172	0RJ3300D477	330 OHM 1/10 W 1% 1608 R/TP
		R173	0RJ2002D677	20000 OHM 1/10 W 5% 1608 R/
		R174	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R175	0RJ0752D477	75 OHM 1/10 W 1% 1608 R/TP
		R177	0RJ3300D477	330 OHM 1/10 W 1% 1608 R/TP
		R178	0RJ3300D477	330 OHM 1/10 W 1% 1608 R/TP
		R179	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R180	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R181	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R182	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R183	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R187	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R188	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R189	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R190	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R191	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R192	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R193	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R194	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R196	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R197	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R198	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R199	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R206	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R218	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R221	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R223	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R227	0RJ6802D677	68K OHM 1/10 W 5% 1608 R/TP
		R228	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R229	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R232	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R236	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R237	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R238	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R239	0RJ2000D677	200 OHM 1/10 W 5% 1608 R/TP
		R240	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R241	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R243	0RJ3000D677	300 OHM 1/10 W 5% 1608 R/TP
		R250	0RJ3000D677	300 OHM 1/10 W 5% 1608 R/TP
		R251	0RJ3000D677	300 OHM 1/10 W 5% 1608 R/TP
		R270	0RJ2000D677	200 OHM 1/10 W 5% 1608 R/TP
		R271	0RJ3000D677	300 OHM 1/10 W 5% 1608 R/TP
		R272	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R273	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R274	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R275	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R276	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R277	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R280	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R281	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R282	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R283	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R284	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R285	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R288	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R289	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R290	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R317	0RJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R318	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R319	0RJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R320	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R322	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R323	0RJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R325	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R326	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R327	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R328	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R332	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R333	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R334	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R344	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R346	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R347	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R400	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R4008	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R4009	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R401	0RJ1002D477	10K OHM 1/10 W 1% 1608 R/TP
		R4010	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R4011	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R4012	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R4013	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R4014	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R4015	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R402	0RJ1002D477	10K OHM 1/10 W 1% 1608 R/TP
		R408	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R410	0RJ2700D477	270 OHM 1/10 W 1% 1608 R/TP
		R411	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R412	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R413	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R414	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R415	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R416	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R417	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R422	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R423	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R424	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R425	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R427	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R432	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R433	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R434	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R435	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R436	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R437	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R438	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R441	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R442	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R443	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R446	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R447	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R448	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R449	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R450	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R451	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R453	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R457	0RJ3302D677	33K OHM 1/10 W 5% 1608 R/TP
		R460	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/T
		R461	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/T
		R462	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R464	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/T
		R468	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R472	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R473	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R474	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R475	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R476	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R477	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R479	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R494	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R495	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R496	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/T
		R497	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/T
		R5001	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R5002	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R5003	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R5004	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R5005	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R5006	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R5007	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R5008	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R501	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R5010	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R5011	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R5013	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R5014	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R5015	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R5016	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R502	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R5023	0RJ6801D477	6.8K OHM 1/10 W 1% 1608 R/T
		R5025	0RJ3901D477	3.9K OHM 1/10 W 1% 1608 R/T
		R503	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R504	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R505	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R506	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R508	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/T
		R509	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R510	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R511	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R512	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R514	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R519	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R521	0RJ3302D677	33K OHM 1/10 W 5% 1608 R/TP
		R522	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R523	0RJ2002D677	20000 OHM 1/10 W 5% 1608 R/
		R524	0RJ3302D677	33K OHM 1/10 W 5% 1608 R/TP
		R526	0RJ2002D677	20000 OHM 1/10 W 5% 1608 R/
		R527	0RJ1203D677	120K OHM 1/10 W 5% 1608 R/T
		R528	0RJ1203D677	120K OHM 1/10 W 5% 1608 R/T
		R529	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R530	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R531	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R534	0RJ2402D677	24K OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R535	0RJ2002D477	20K OHM 1/10 W 1% 1608 R/TP
		R536	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R537	0RJ2402D677	24K OHM 1/10 W 5% 1608 R/TP
		R538	0RJ2402D677	24K OHM 1/10 W 5% 1608 R/TP
		R539	0RJ3302D477	33K OHM 1/10 W 1% 1608 R/TP
		R541	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R544	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R545	0RJ3302D677	33K OHM 1/10 W 5% 1608 R/TP
		R550	0RJ2002D677	20000 OHM 1/10 W 5% 1608 R/TP
		R551	0RJ3302D677	33K OHM 1/10 W 5% 1608 R/TP
		R552	0RJ2702D677	27K OHM 1/10 W 5% 1608 R/TP
		R554	0RJ2002D677	20000 OHM 1/10 W 5% 1608 R/TP
		R556	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R557	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R558	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R559	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R560	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R561	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R562	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R565	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R579	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R580	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R581	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R583	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R585	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R586	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R587	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R588	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R592	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R593	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R595	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R597	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R603	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/TP
		R604	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R605	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/TP
		R607	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R613	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R615	0RJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R616	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R625	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R627	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R634	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R636	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R638	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R639	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R640	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP
		R641	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R642	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP
		R646	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R648	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R701	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R702	0RJ4703D677	470K OHM 1/10 W 5% 1608 R/TP
		R703	0RJ4703D677	470K OHM 1/10 W 5% 1608 R/TP
		R704	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R705	0RJ4703D677	470K OHM 1/10 W 5% 1608 R/TP
		R706	0RJ4703D677	470K OHM 1/10 W 5% 1608 R/TP
		R707	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R708	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R709	0RJ4703D677	470K OHM 1/10 W 5% 1608 R/TP
		R710	0RJ4703D677	470K OHM 1/10 W 5% 1608 R/TP
		R711	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R712	0RJ0822D677	82 OHM 1/10 W 5% 1608 R/TP

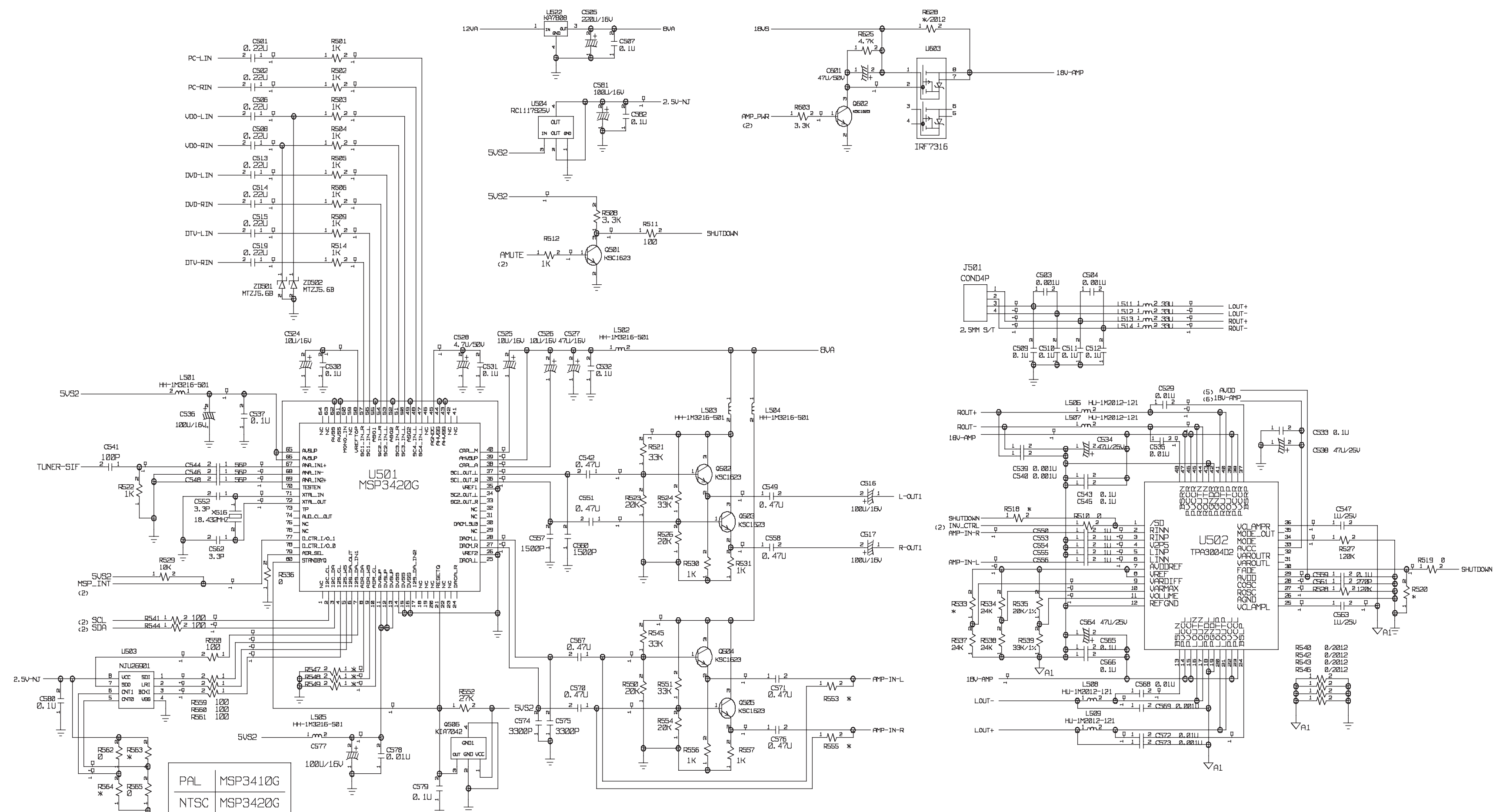
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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R713	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R714	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R715	0RJ0822D677	82 OHM 1/10 W 5% 1608 R/TP
		R716	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R717	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R718	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R719	0RJ0822D677	82 OHM 1/10 W 5% 1608 R/TP
		R720	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R721	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R722	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R723	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R724	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R725	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R726	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R727	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R728	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R729	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP
		R730	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP
		R731	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP
		R733	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R734	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R735	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R808	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R809	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R810	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R811	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R812	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R813	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R814	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R816	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R818	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R819	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R823	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R901	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R906	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R907	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R909	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R910	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R911	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R912	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R915	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R916	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R917	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R918	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R919	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R956	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R957	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R960	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R962	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R963	0RJ1005D677	10M OHM 1/10 W 5% 1608 R/TP
		R965	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R966	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
OTHERS				
		X401	6202TST001A	"SX-1 SUNNY ,SMS, 14.31818MH"
		X516	6202TST003B	HC-49/SM5H KONY CHIP 18.432
		X801	6212AB2806A	SX-1 SUNNY 24.576MHZ +/- 50
		X901	6202TST001H	SX-1 SUNNY 27MHZ +/- 30 PPM

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
INTERFACE BOARD				
		R801	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R802	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R803	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R804	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R805	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R806	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R807	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R808	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		ZD801	0DZKE00228A	KDZ24V KEC R/TP USC 200MW 2
		ZD802	0DZKE00228A	KDZ24V KEC R/TP USC 200MW 2
		ZD803	0DZKE00228A	KDZ24V KEC R/TP USC 200MW 2
		ZD804	0DZKE00228A	KDZ24V KEC R/TP USC 200MW 2
		ZD805	0DZKE00228A	KDZ24V KEC R/TP USC 200MW 2
		ZD806	0DZKE00228A	KDZ24V KEC R/TP USC 200MW 2
		ZD807	0DZKE00228A	KDZ24V KEC R/TP USC 200MW 2
		ZD808	0DZKE00228A	KDZ24V KEC R/TP USC 200MW 2
		ZD809	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD810	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD811	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
IR BOARD				
		C1000	0CN1010K519	100PF D 50V 10% B(Y5P) TA52
		C1001	0CE476DF618	47UF STD 16V 20% FL TP 5
		L1000	0LA0102K119	10UH 10% A 2.3 X 3.4 TA52 -
		R1000	0RD0102F609	10 OHM 1/6 W 5% TA52
		SW910	140-058B	EVQ PB2 05K MATUSHITA NON 1
		SW911	140-058B	EVQ PB2 05K MATUSHITA NON 1
		SW912	140-058B	EVQ PB2 05K MATUSHITA NON 1
		SW913	140-058B	EVQ PB2 05K MATUSHITA NON 1
		SW914	140-058B	EVQ PB2 05K MATUSHITA NON 1
		SW915	140-058B	EVQ PB2 05K MATUSHITA NON 1
		SW916	140-058B	EVQ PB2 05K MATUSHITA NON 1
		SW917	140-058B	EVQ PB2 05K MATUSHITA NON 1
		PA1000	6726VV0006J	TSOP2238MQ1 VISHAY 38KHZ MC
LOGO BOARD				
		LED801	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED802	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED803	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED804	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED805	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED806	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED807	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED808	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED809	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED810	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED811	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED812	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED813	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED814	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED815	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED816	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		C3100	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD)
		C3101	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD)
		C3102	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD)
		C3103	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD)
		C3104	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD)
		C3105	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD)
		C3106	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD)

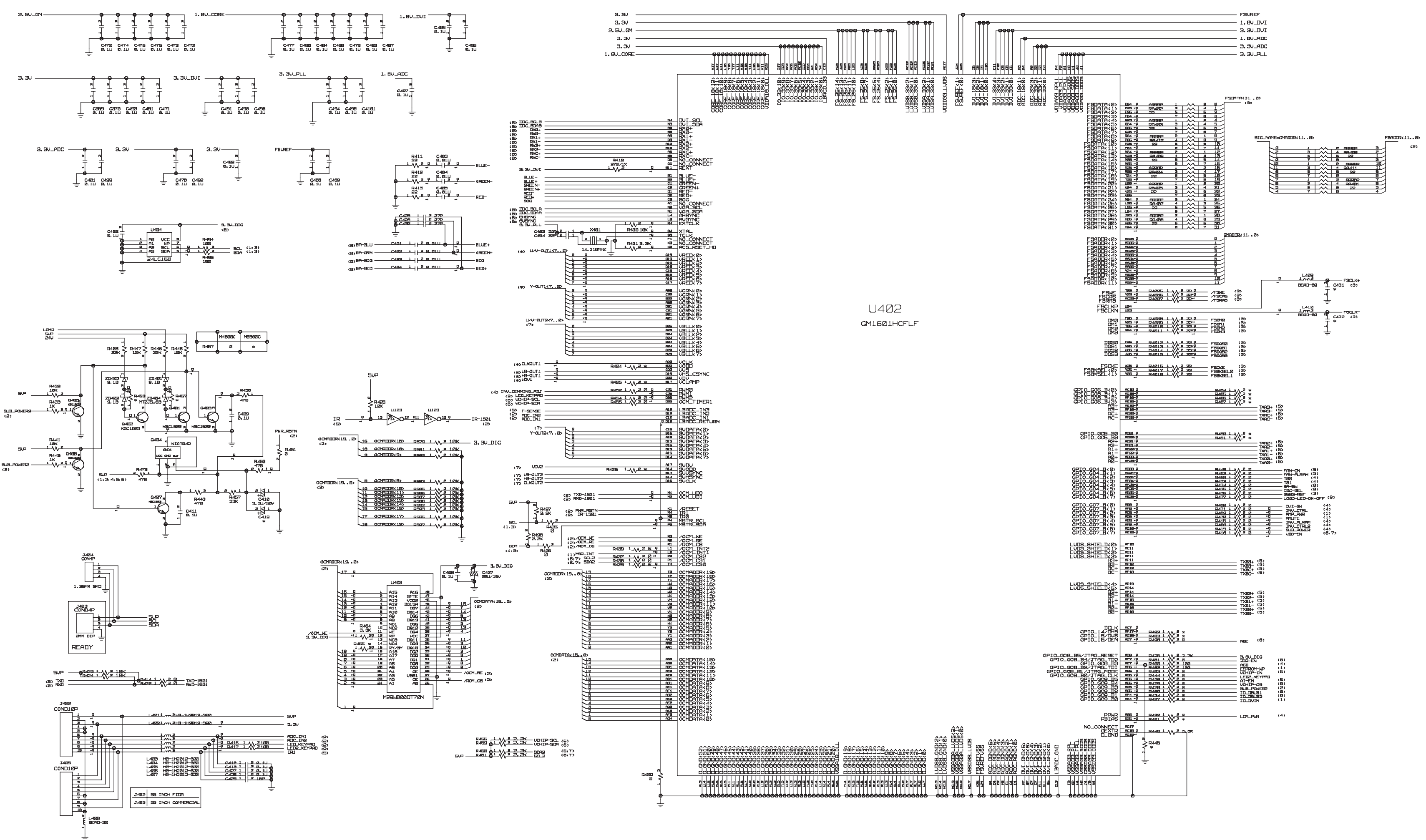
DATE: 2005. 11. 01.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C3107	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD)
		C3108	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3109	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3110	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3111	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3112	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3113	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3114	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3115	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		Q3101	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3102	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3103	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3104	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3105	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3106	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3107	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3108	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		R3101	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R3102	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R3103	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R3104	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R3105	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R3106	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R3107	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R3108	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R3109	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3110	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3111	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3112	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3113	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3114	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3115	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3116	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3120	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
LED & P/SW BOARD				
		R1	0RH0562D622	56 OHM 1 / 10 W 2012 5.00%
		R2	0RH0562D622	56 OHM 1 / 10 W 2012 5.00%
		ZD1	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD2	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		LED1	0DL200000CA	SAM5670(DL-2LRG) BK Y-GREEN
		LED1	4930V00271A	LED HIPS-40AF RN-15LA50
LIGHT SENSOR BOARD				
		C708	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		U702	0IPRPTX001A	"TSL2550T TAOS 4P, TRAY LIGH"
		ZD709	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD714	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD715	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
CONTROL BOARD				
		C920	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C921	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C922	0CK105CF94A	"1UF 1608 16V 80%,-20% R/TP"
		R911	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R912	0RJ8200D677	820 OHM 1/10 W 5% 1608 R/TP
		R913	0RJ1501D677	1.5K OHM 1/10 W 5% 1608 R/T
		R914	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/T
		R916	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T

DATE: 2005. 11. 01.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R917	0RJ8200D677	820 OHM 1/10 W 5% 1608 R/TP
		R918	0RJ1501D677	1.5K OHM 1/10 W 5% 1608 R/T
		R919	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/T
		R932	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R933	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R934	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R935	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R936	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R937	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP

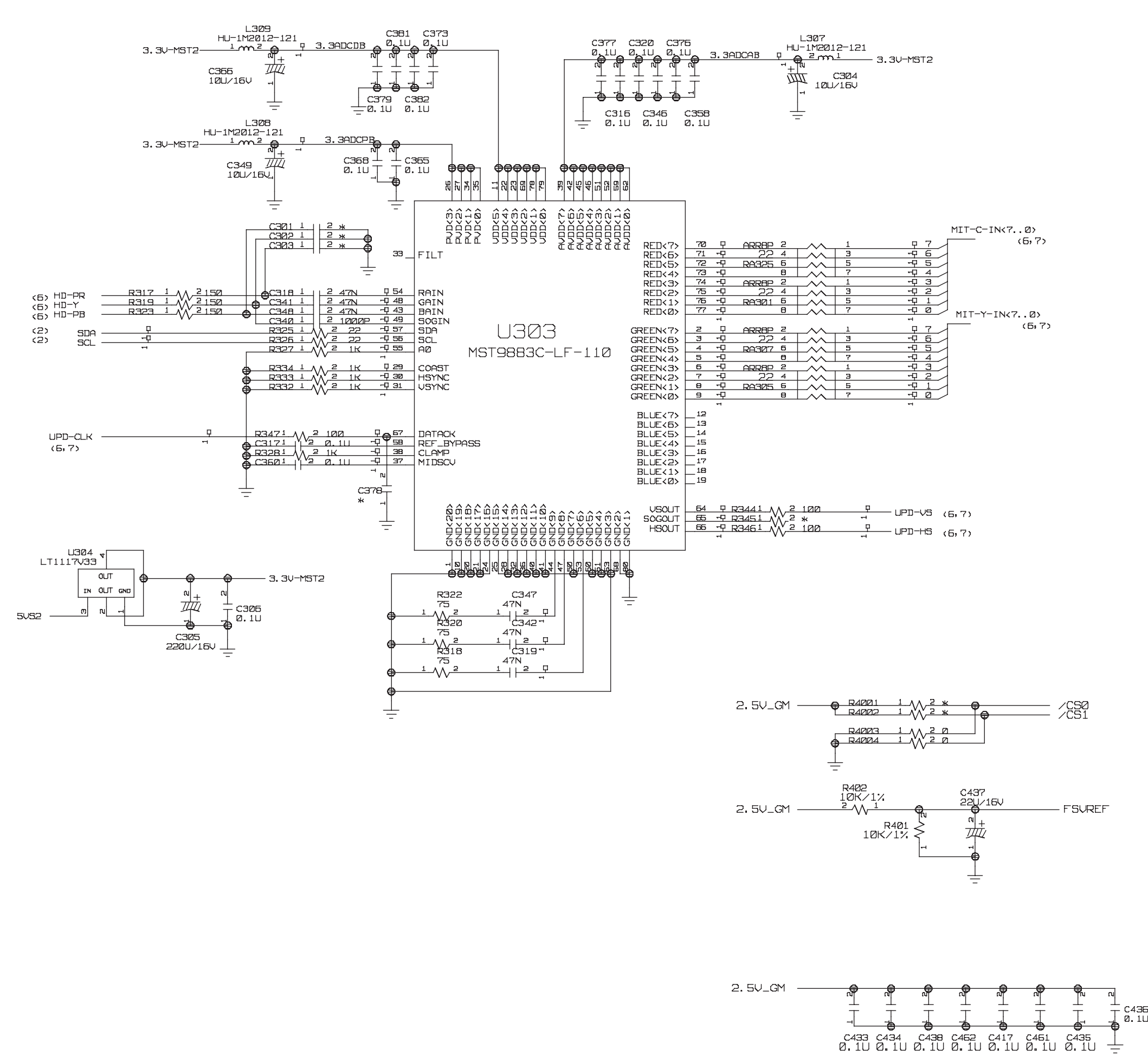
#1 AUDIO CTL / AMP



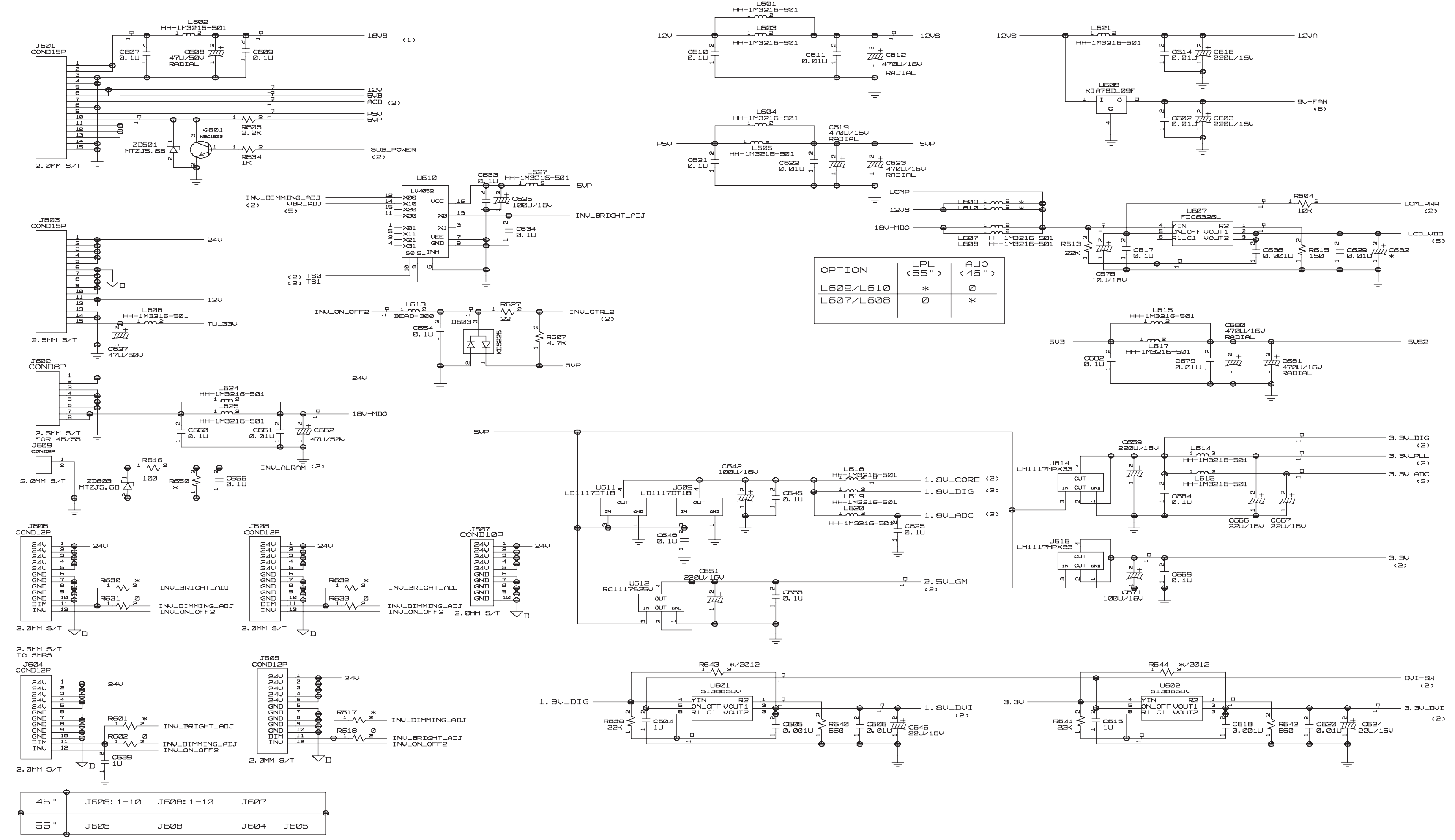
#2 SCALER (GM1601)



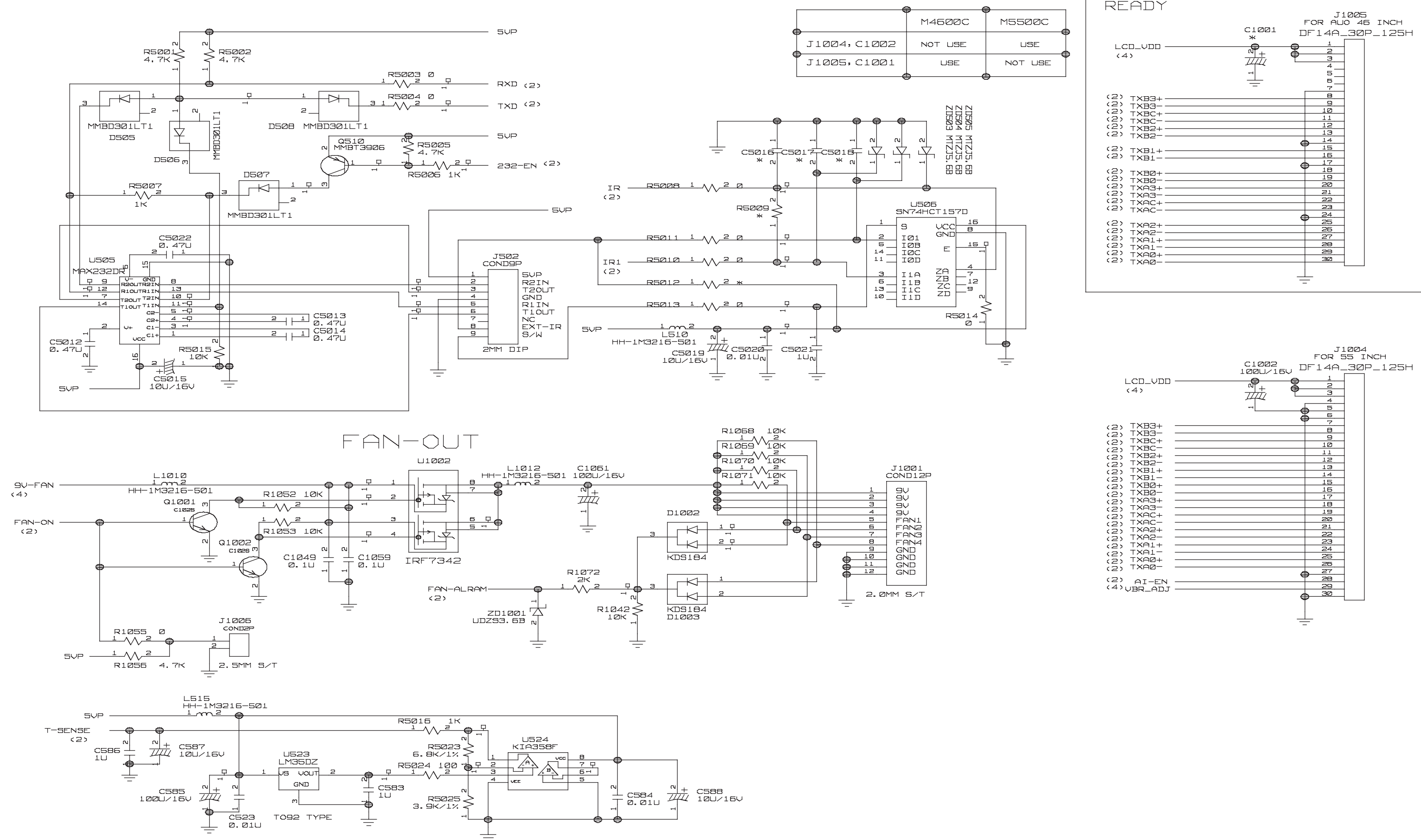
#3 MST9883/K4D553238E



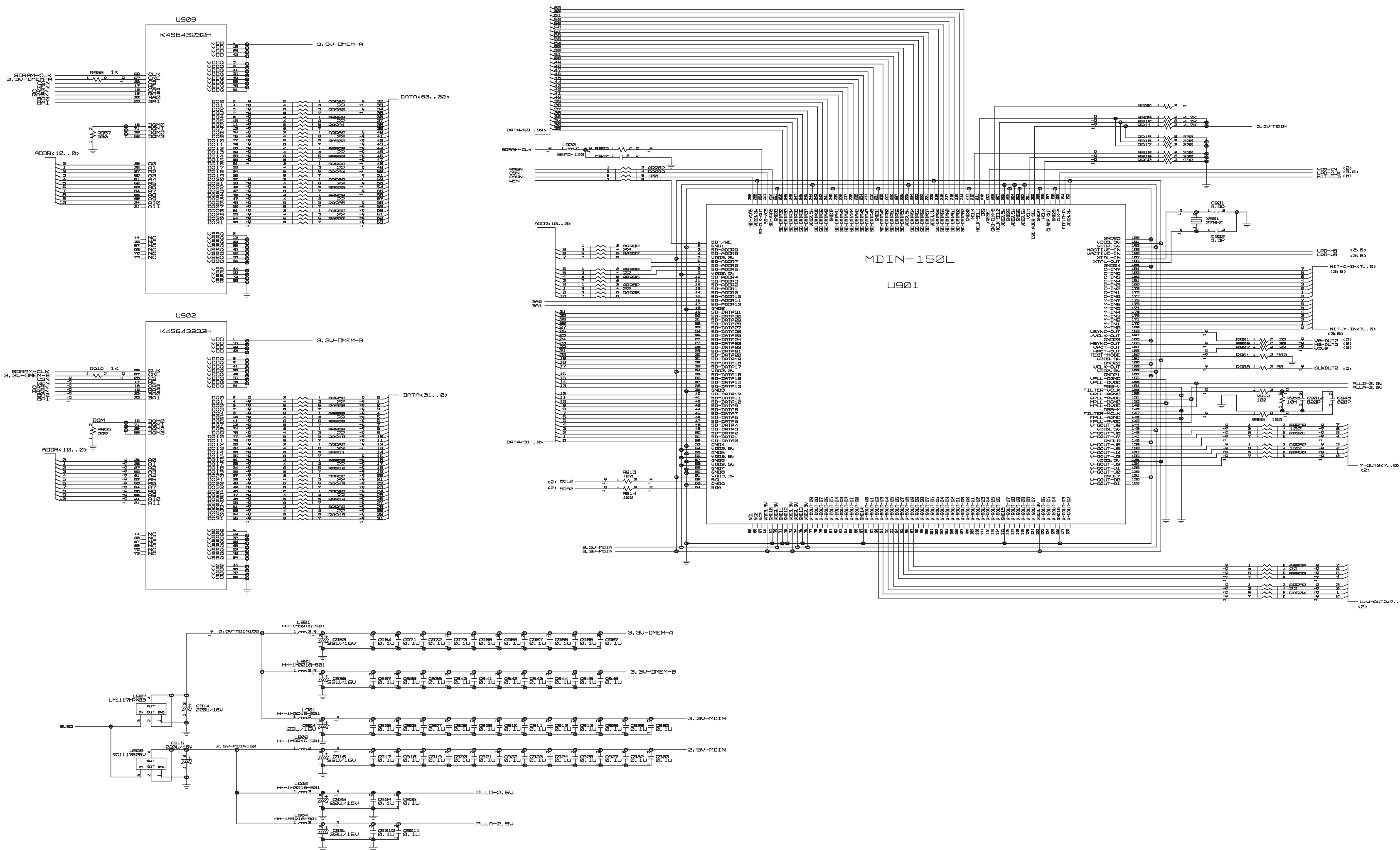
#4 POWER/CONNECTOR



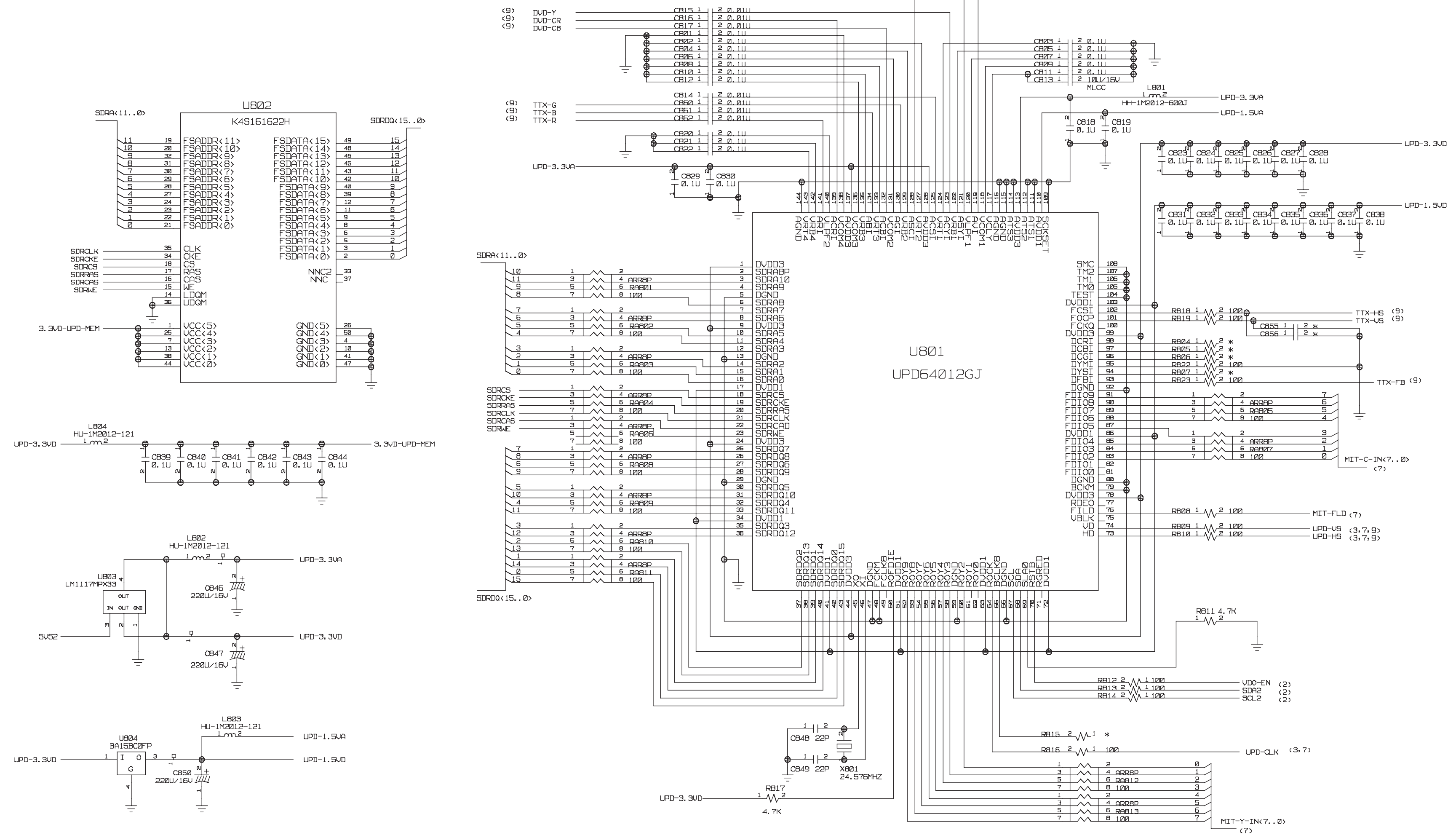
#5 FAN CONTROL/RS232C/OUTPUT CONNECTOR



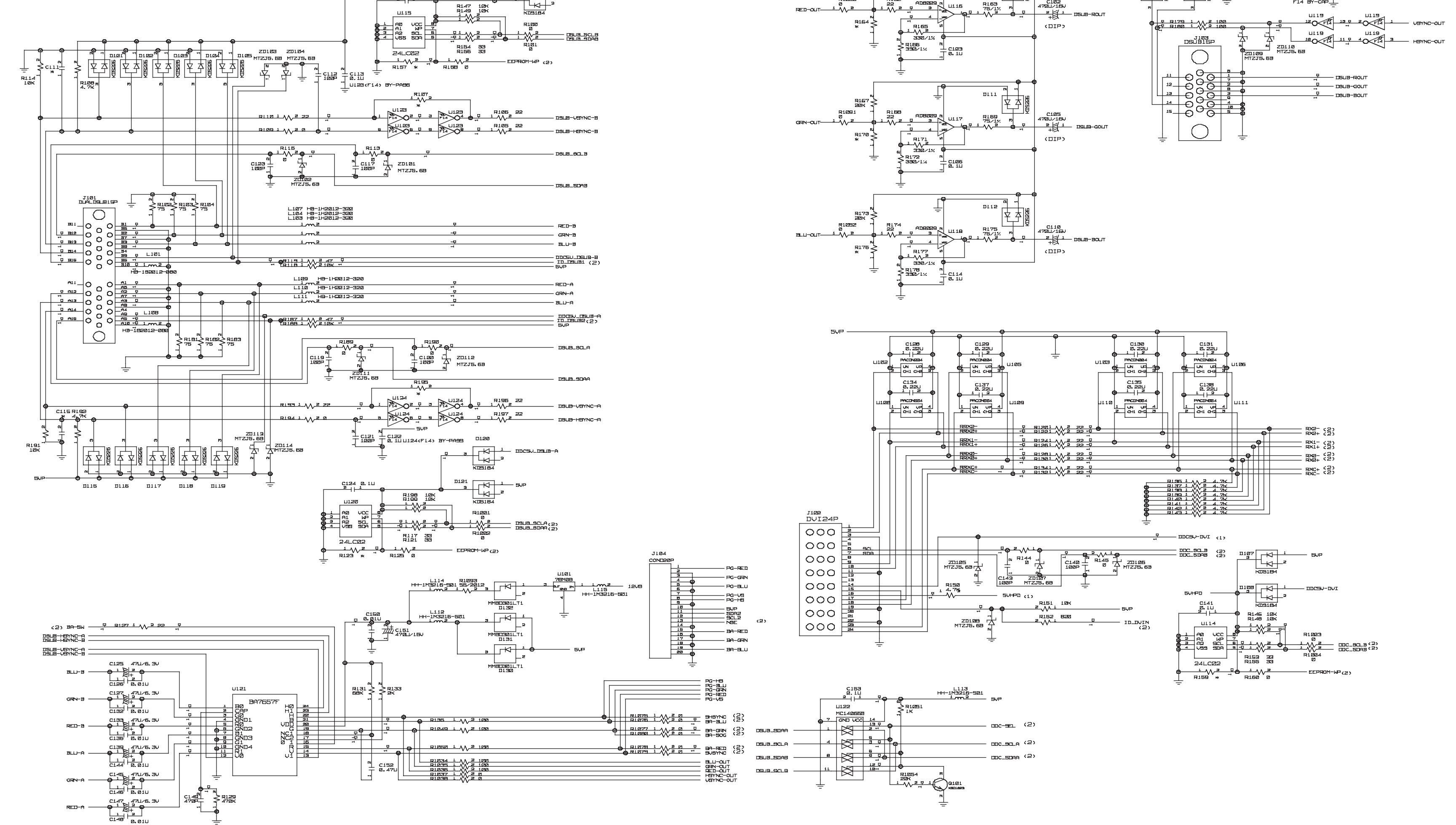
#7 MDIN150/MEMORY



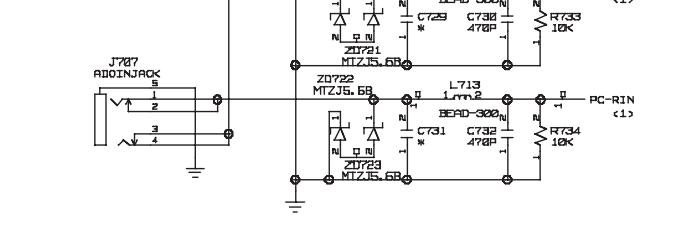
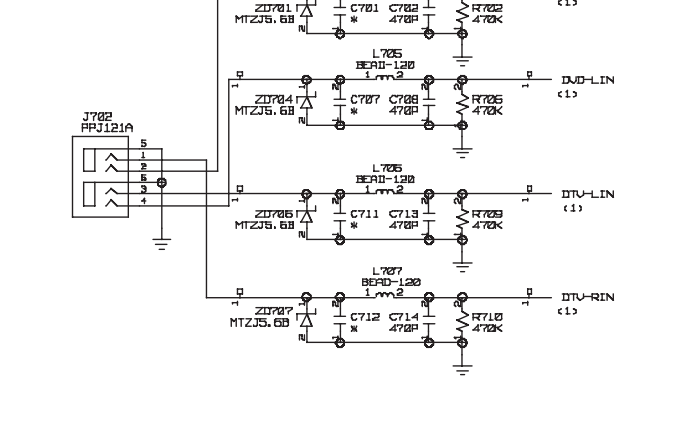
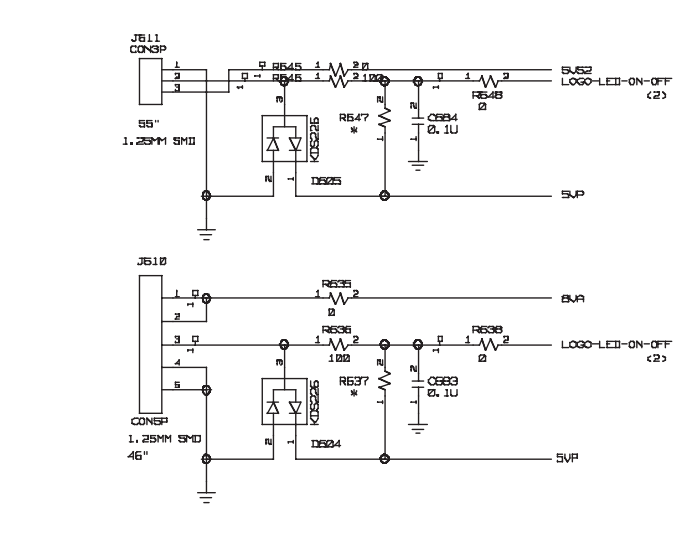
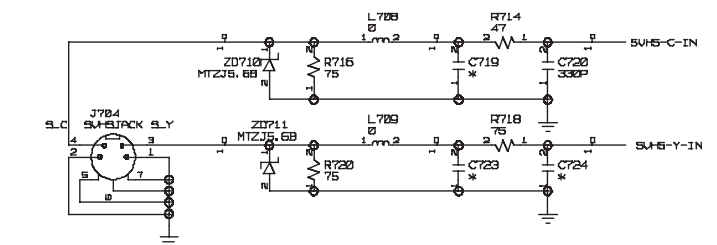
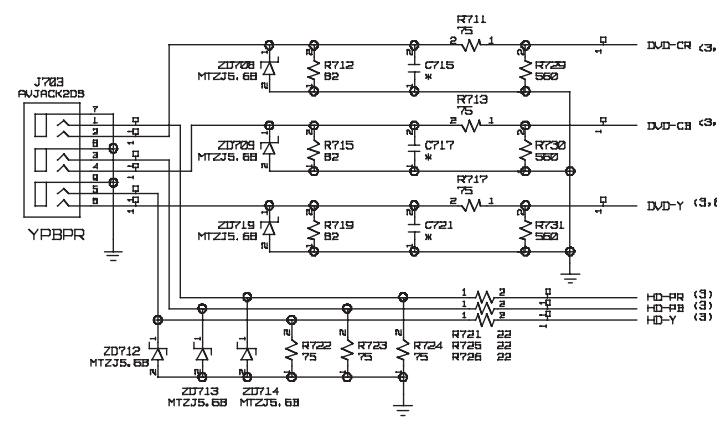
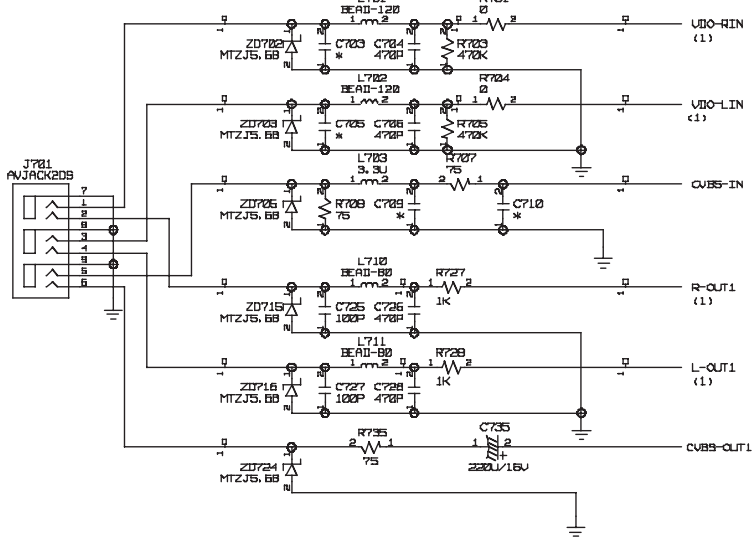
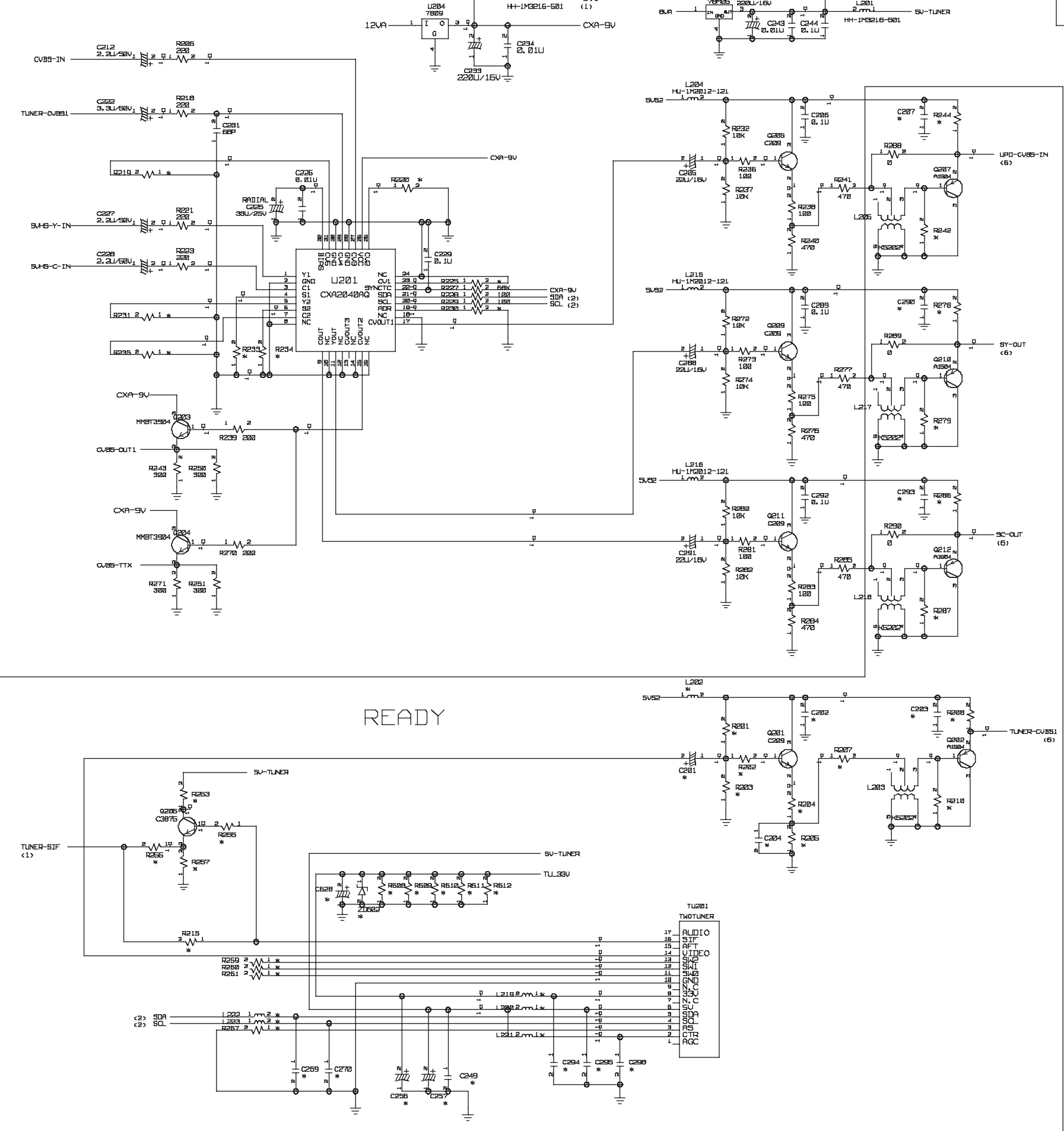
#6 UPD64012/K4S161622



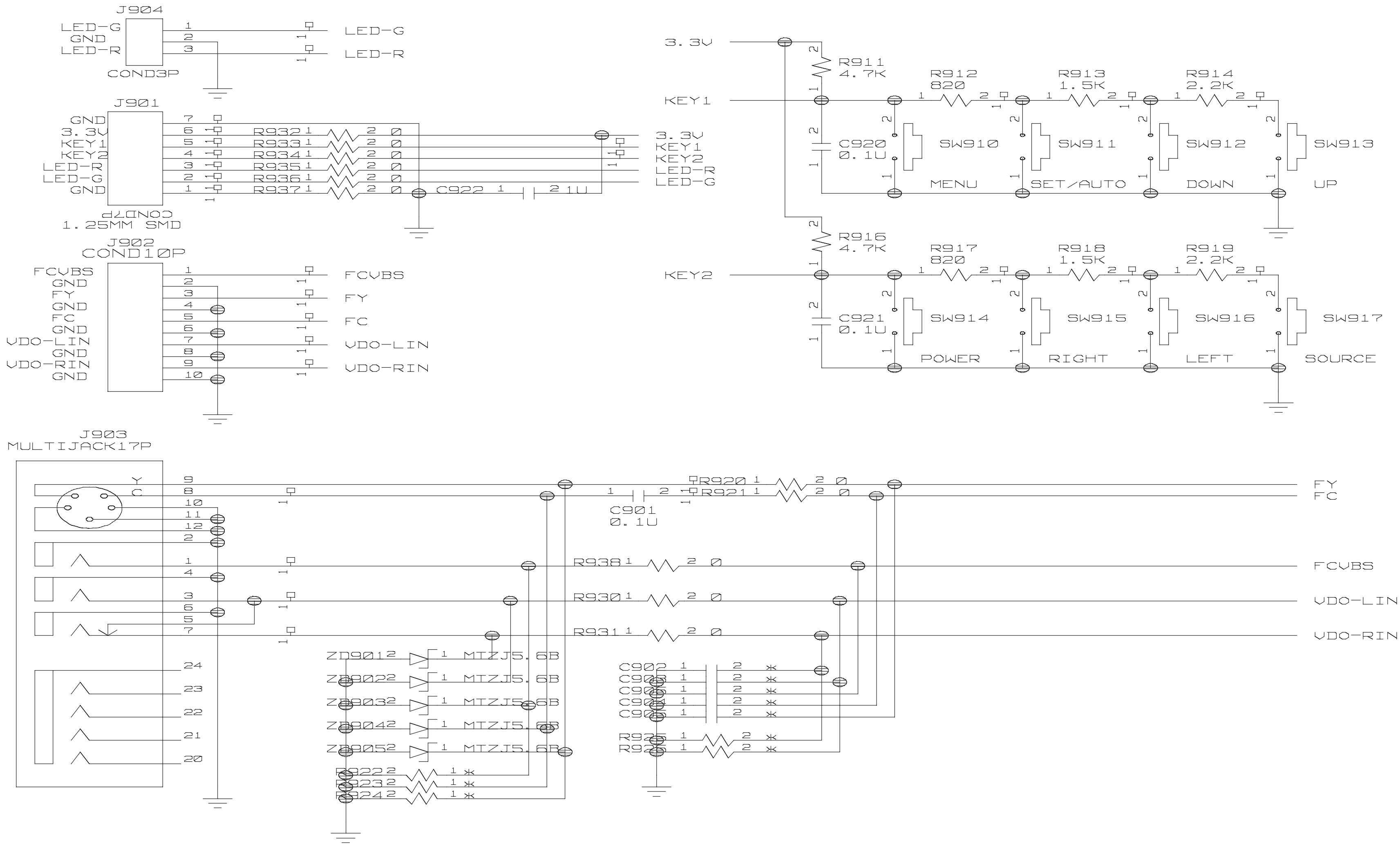
#8 DSUB/DVI-D/BA7657



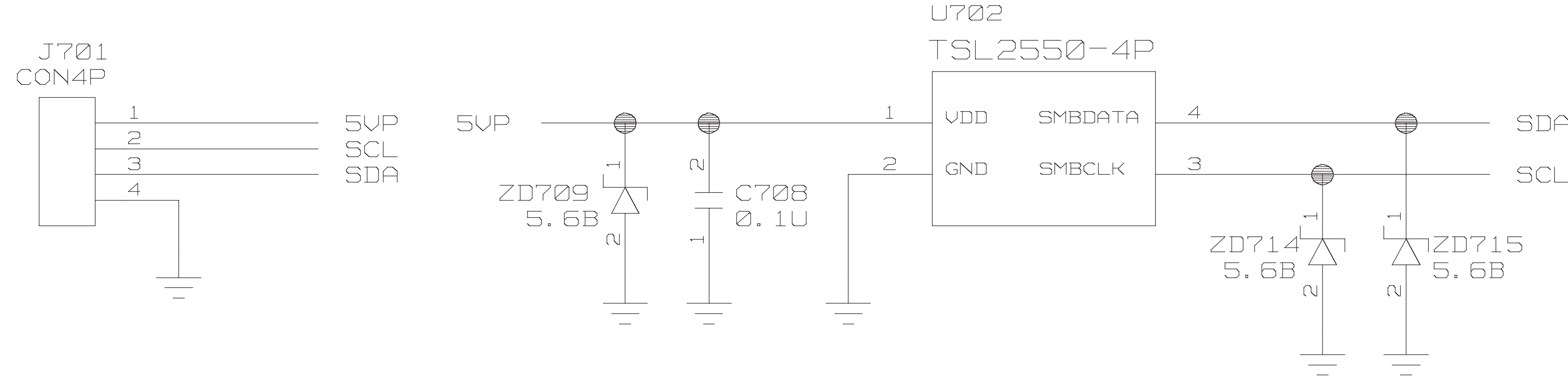
#9 CXA2040AQ/TUNER/M37272M6/AV-JACK



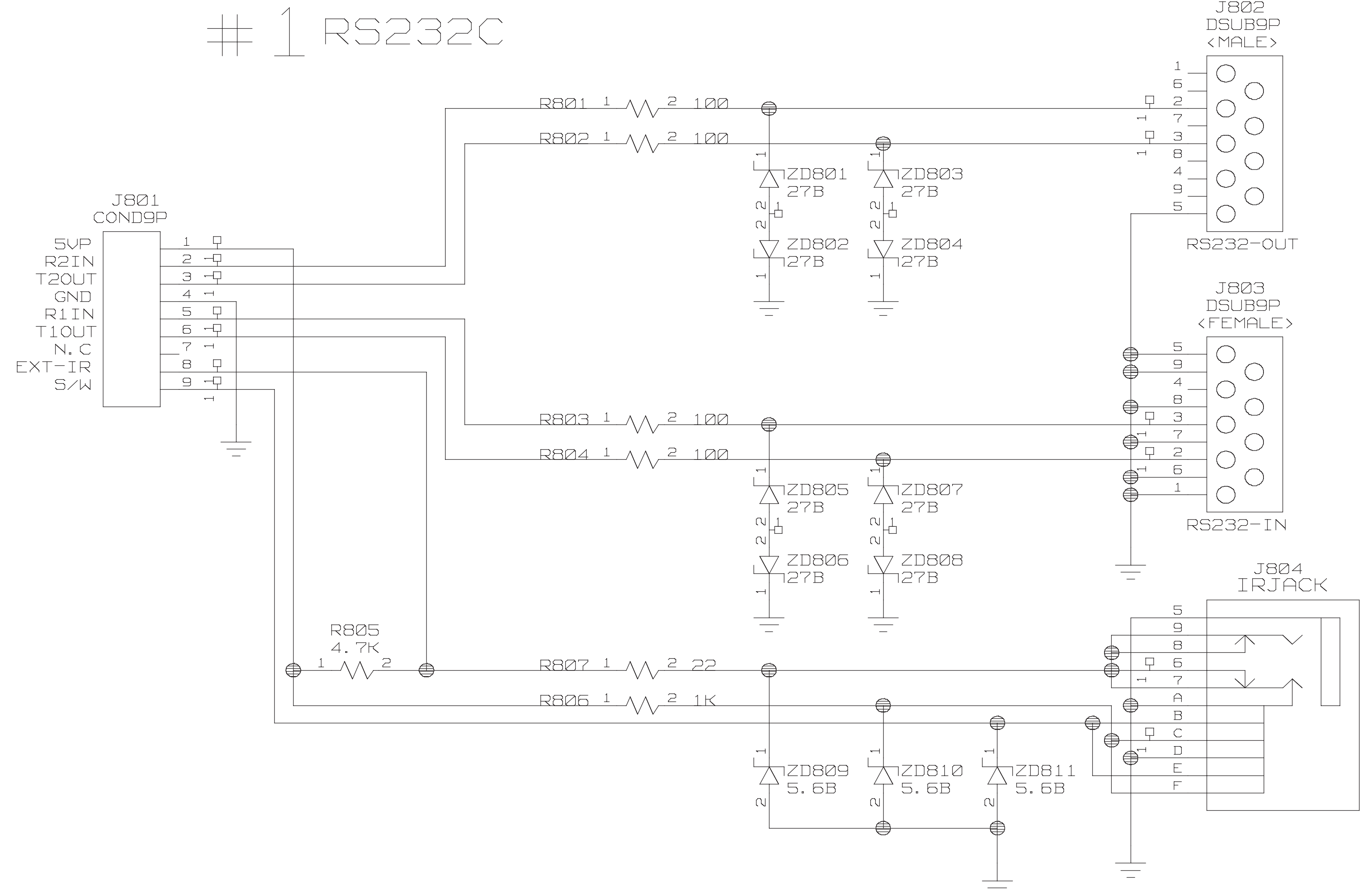
#1 KEY PART



#1 SENSOR PART



#1 RS232C





P/NO : 38289S0022U

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